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1984

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MINERALOGICAL ABSTRACTS

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MINERALOGICAL ABSTRACTS

VOLUME 35

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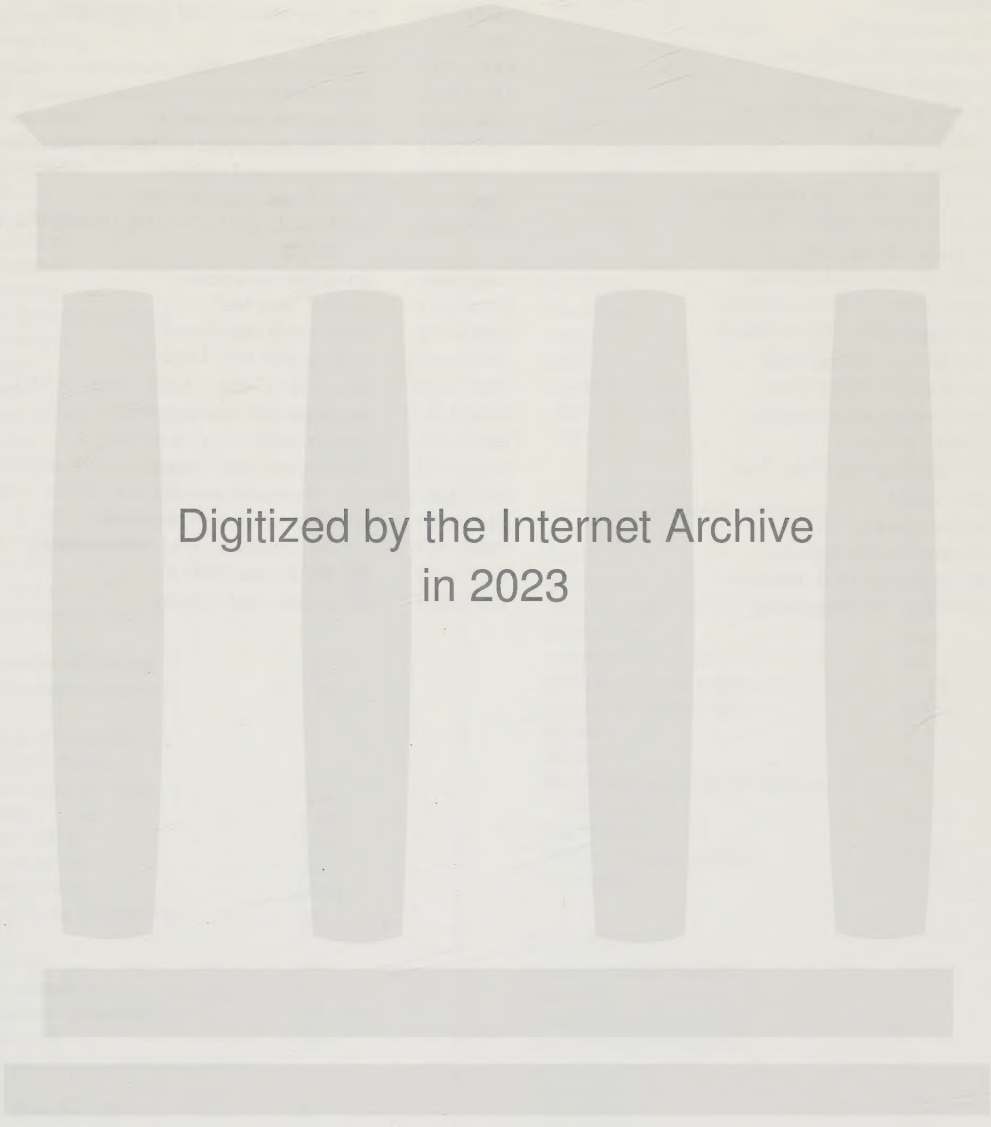
CONTENTS

Age determination	84M/0001, 1201, 2340, 3621
Apparatus and techniques	84M/0051, 1228, 2367, 3670
Book Notices	84M/0078, 1251, 2449, 3692
Clay minerals	84M/0091, 1262, 2460, 3702
Crystal structure	84M/0148, 1346, 2494, 3779
Economic minerals and ore deposits	84M/0208, 1410, 2551, 3856
Environmental studies	84M/0310, 1514, 2617, 3930
Experimental mineralogy	84M/0332, 1544, 2634, 3949
Gemstones	84M/0483, 1633, 2759, 4039
Geochemistry	84M/0508, 1657, 2774, 4061
Lunar and planetary studies	84M/0730, 1813, 3068, 4186
Meteorites and tektites	84M/0732, 1814, 3088, 4191
Mineral data	84M/0755, 1822, 3119, 4210
New minerals	84M/0878, 1923, 3228, 4283
Petrology	84M/0900, 1944, 3256, 4293
Physical properties of rocks and minerals	84M/1153, 2279, 3566, 4523
Topographical mineralogy	84M/1171, 2289, 3594, 4559
Various topics	84M/1183, 2332, 3608, 4614

Place-names are, in general, in the form used in the Columbia-Lippincott Gazetteer of the World (1952 edition); alternative forms are given on occasion.

Grateful thanks are due to those readers who have notified us of errors in volume 35 of *Mineralogical Abstracts*.



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ERRATA

Mineralogical Abstracts, Vol. 35

84M/0054 *for* 2.7 *read* 2.8

84M/0075 *for* relative *read* relatively

84M/0076 *for* fixations *read* fixing

84M/0083 *for* Krishnaswamy *read* Krishnaswami

84M/0087 *for* Panaylotou *read* Panayiotu

84M/0088 *for* The *read* This

84M/0088 *delete* 'This book'

84M/0095 *for* ferrosic *read* ferroic

84M/0097 *for* ot *read* to

84M/0105 *for* was *read* were

84M/0116 *for* Erzebirge *read* Erzgebirge

84M/0117 *for* chorite *read* chlorite

84M/0130 *for* Athigenic *read* Authigenic

84M/0131 *for* and *read* the

84M/0131 *for* have *read* has

84M/0134 *insert* 'the' *after* 'are' (are the most)

84M/0136 *for* mix-Wales *read* mid-Wales

84M/0138 *for* planer *read* planar

84M/0139 *for* Andolsols *read* Andosols

84M/0140 *insert* 'occur' *after* 'vermiculite'

84M/0141 *for* mermiculite *read* vermiculite

84M/0143 *for* Sarawat *read* Sarawak

84M-0147 *for* betweeH *read* between

84M/0150 *for* Minerials *read* minerals

84M/0202 *for* hae *read* have

84M/0508 *for* $^{40}Ar/^{36}Ar$ *read* $^{40}Ar/^{39}Ar$

84M/0596 *for* = *read* $\frac{1}{3}$

84M/0792 *for* Bourgas *read* Burgas

84M/1153 *for* axinities *read* axinites

84M/1182 *for* cassitereite *read* cassiterite

84M/1214 *for* $^{230}Th/^{234}U$ (twice) *read* $^{230}Th/^{234}Th$

84M/1436 *for* diaphthorite *read* diaphorite

84M/1688 *for* Chrondite *read* Chondrite

84M/1715 *for* Ofoten region *read* Lofoten region

84M/1920 *for* optially *read* optically

84M/1942 *for* Mt. Eveslogehorr *read* Mt. Eveslogchorr

84M/2359 *for* Okanagan *read* Okanogan

84M/2724 *for* South Africa *read* South West Africa

84M/2911 *for* (Preceding abstract) *read* [M.A. 84M/2951]

84M/2926 *for* Okanagan *read* Okanogan

84M/3080 *for* Comogonical *read* Cosmological

84M/3214 *for* on *read* of

84M/3242 *insert* M_2^{2+} *after* Mn_4^{3+}

84M/3292 *for* n *read* in

84M/3413 *for* possible *read* possibly

84M/3573 *for* phosphoranylite *read* phosphuranylite

84M/3687 *for* regents *read* reagents

84M/3827 *for* Barbillat *read* Barbillet

84M/3848 *for* $Ca_2UO_2(CO_3) \sim 11H_2O$ *read* $Ca_2UO_2(CO_3)_2 \sim 11H_2O$

84M/4006 *for* metals *read* melts

84M/4019 *for* Mg^2 *read* Mg^{2+}

84M/4152 *for* Damera *read* Damara

84M/4206 *for* Lugmain *read* Lugmair

84M/4224 *for* $<470°C$ and <2 kbar *read* $\sim 470°C$ and ~ 2 kbar

84M/4267 *for* hukutolite *read* hokutolite

84M/4270 *for* thernadite *read* thenardite

84M/4354 *for* Lippard *read* Lippart

84M/4361–4362 abstracts missing

84M/4509 *for* plagioglase *read* plagioclase

84M/4525 *for* microplasticity *read* microelasticity

84M/4533 *for* 200 K *read* 2000 K

84M/4618 *for* orgenic *read* orogenic

ABBREVIATIONS AND SYMBOLS

M.M. . . Mineralogical Magazine : M.A. . . Mineralogical Abstracts : A.M. . . American Mineralogist

CHEMICAL & PHYSICAL

CHEMICAL

atomic absorption spectroscopy	AAS
cation-exchange capacity	c.e.c.
chemical analysis	chem. anal.
concentrated	conc.
differential thermal analysis	DTA
dilute	dil.
disintegrations per minute	d.p.m.
equivalent U_3O_8	eU_3O_8
ethylenediaminetetra-acetic acid	EDTA
heat of formation (absolute temperature subscript)	ΔHf
hydrogen ion conc. acidity	pH
insoluble residue	insol. res
isotopes, e.g.	^{40}Ar, ^{40}K
loss on ignition	ign. loss
milliequivalent	me.
microgramme	μg
million-years	m.y.
neutron activation analysis	NAA
not determined	n.d.
not found	nt. fd.
not present	nil
parts per million	p.p.m.
rare earths	*TR* or *RE*
standard mean ocean water	SMOW
strength of solution, normal	*N*
——molar	*M*
substances in ionic state	
anions, e.g.	Cl^-, SO_4^{2-}
cations, e.g.	K^+, Fe^{3+}
thermogravimetric analysis	TGA
trace	tr.
X-ray powder diffraction	XRD
X-ray fluorescence analysis	XRF

CRYSTALLOGRAPHIC & STRUCTURAL

Ångstrom unit (10^{-8} cm)	Å
crystal axes	*a, b, c*
—face indices	(hkl)
—form indices	{hkl}
—zone indices	[hkl]
indices of X-ray diffractions	hkl
intensity	*I*
—relative	I/I_0
interplanar spacing	*d*
mica structural polymorphs	$1M_1$, $2M_1$
Siegbahn units	kX
space group. These words are written in full	
unit cell, formula units	*Z*
——repeat distances	*a, b, c*
——reciprocal lattice lengths of edges	a^*, b^*, c^*
——interaxial angles direct lattice	α, β, γ
——reciprocal lattice	$\alpha^*, \beta^*, \gamma^*$

OPTICAL

dispersion, e.g.	$r > v$
transmission electron microscopy	TEM
extinction angle, e.g.	$\gamma : c$
infrared	IR
optic axial angle	2V
——plane	O.A.P.
refractive index, in text	refr. ind.
——of isotropic mineral	*n*
refractive indices	
of uniaxial mineral	ω, ϵ
of biaxial mineral	α, β, γ
scanning electron microscopy	SEM
sign of biaxiality	
negative	$2V_\alpha$ or −
positive	$2V_\gamma$ or +
ultraviolet	UV

PHYSICAL

calculated	calc.
calorie	cal.
calorie, large	kcal.
cycles per second	c/s
degree centigrade	°C
density	*D* (quote units)
—, relative, e.g.	D_4^{20}
electron paramagnetic resonance	e.p.r.
gramme	g
hardness	H.
kilobar (10^8 Pa)	kbar
melting-point	m.p.
micron (10^{-4} cm)	μm
nanometre (10^{-7} cm)	nm
natural remanent magnetization	n.r.m.
pounds per square inch	lb/in.^{2}
pressure	*P*
soluble	sol.
specific gravity, terms of reference not known	sp. gr.
temperature	*T*
Vickers hardness number	VHN
wavelength	λ

SYMBOLS

approximately equal to	~
equal to	=
equal to or greater than	⩾
equal to or less than	⩽
greater than	>
less than	<
not equal to	≠
parallel to	∥
per cent	%
per mile	‰
perpendicular to	⊥
proportional to	∝

ABBREVIATIONS USED IN REFERENCE TO PUBLICATIONS

Abhdl.	Abhandlungen
Abstr.	Abstract, -s
Abt.	Abteilung
Acad, Accad., Akad.	Academy, & *equiv.*
Adv.	Advancement
Agric.	Agricultur-al, -e
Anal.	Analy-st, -tical, &c.
Ann., An.	Annals, Anales, & *equiv.*
Anorg.	Anorganisch
Appl.	Applied
Arch.	Archives
Asoc., Assoc.	Association, & *eqiv.*
Astron.	Astronomical
Bd.	Band
Beitr.	Beiträge
Ber.	Bericht-e
Berg.	Bergwesen
Bol., Boll., Bull.	Bulletin, & *equiv.*
B.R.G.M.	Bur. Rech. Géol. Minières, France
Bur.	Bureau
Ceram.	Ceramic, & *equiv.*
Chem., Chim.	Chemi-cal, -stry, & *equiv.*
Cien.	Ciencia, -s
Circ.	Circular
Cl.	Classe
Com.	Comisión
Comm.	Commission
Conf.	Conference, & *equiv.*
Congr.	Congres, & *equiv.*
Contr.	Contributions
C.R.	Comptes Rendus
Crist., Cryst.	Crystallograph-ical, -y & *equiv.*
Dept.	Department, & *equiv.*
Diss.	Dissertation
Divn.	Division
Dokl.	Doklady = C.R.
D.S.D.P.	Deep-Sea Drilling Programme
Econ.	Economic
Educ.	Education
Eng.	Engineering
Exped.	Expedition
Exper.	Experimental
Expl.	Exploration
Fac.	Faculty
Fig(s).	Figure(s)
Fis.	Fisicale, fisico
Fören.	Föreningen
Förh.	Förhandlinger
Fortsch.	Fortschritt, -e
Gen.	General
Geochem., chim.	Geochemi-cal, -stry, &c.
Geogr.	Geograph-y, ical, &c.
Geol., géol.	Geolog-y, ical, -ist, & *equiv.*
Geophys., geofis.	Geophysic-al, -s, &c.
Gesell.	Gesellschaft
Govt.	Government
Hdbh.	Handbuch
Illustr.	Illustrat-ed, -ions
Imp.	Imperial
Industr.	Industr-ial, -y
Inform.	Information
Inst.	Institute, institution, & *equiv.*
Instr.	Instruments
Int.	Interior
Intern.	International
Invest.	Investigations
Issl.	Issledovaniye = investigation
Ist.	Istituto
Izd.	Izdanie = publication
Izvest.	Izvestiya
Jahrb.	Jahrbuch
Jahresb.	Jahresbericht
Jorn., Journ.	Journal, & *equiv.*
Khim.	Khim-ie, &c.
Kl.	Klasse
Krist.	Kristallographie, &c.
Lab.	Laboratory
Lit.	Literary
Mag.	Magazine
Mat., Math.	Mathematical, & *equiv.*
Medd.	Meddelelser
Mem., Mém.	Memoir, -s, & *equiv.*
Metall.	Metallurg-ical, -y
Min.	Mineralog-ical, -ist, -y
Misc.	Miscellaneous
Mitt.	Mitteilungen
Mh.	Monatsheft
Mus., Muz.	Museum, & *equiv.*
Nac., Nat., Naz.	National, & *equiv.*
Natur.	Natur-al, -alist, & *equiv.*
Natur-w, -v.	Naturwissenschaft, & *equiv.*
Obraz.	Obrazovanie = education
Obshch.	Obshchestva = society
Petr.	Petrolog-ical, -y, & *equiv.*
Petrol.	Petroleum
Phil.	Philosophical, &c.
Photos.	Photographs
Photomicros.	Photomicrographs
Phys.	Physic-al, -s, & *equiv.*
Pl(s).	Plate(s)
Polytech.	Polytechnic, & *equiv.*
Pract., Prakt.	Practical, & *equiv.*
Proc.	Proceedings
Prof.	Professional
Prosp.	Prospecting
Publ.	Publication(s), published
Razv.	Razvedka = survey
Rec.	Records
Ref.	References, referata
Rend.	Rendiconti
Repb.	Republic
Rept.	Report(s)
Res.	Research
Reserv.	Reserves
Resrcs.	Resources
Rdsch.	Rundschau
Rev.	Review
Roy.	Royal, & *equiv.*
Sborn.	Sbornik = magazine
Sch.	School, Schule
Sci.	Science
Sect.	Section
Sedim.	Sedimentary
Ser., sér.	Series, & *equiv.*
Serv.	Service
Sitzb.	Sitzungsbericht
Skr.	Skrift, -en -er
Soc.	Society, & *equiv.*
Sondbd.	Sonderband
Spec., Spez.	Special, & *equiv.*
Stand.	Standard(s)
Stn.	Station
Suppl.	Supplement
Surv.	Survey, -or
Symp.	Symposium
Tab(s).	Table(s), tabellen
Techn.	Technologi-cal, -y
Tids(s)kr.	Tid(s)krift, -en
Tijdschr.	Tijdschrift
Trab.	Trabajos
Trans.	Transactions
Transl.	Translat-ed, -ion
U.A.R.	United Arab Republic
Uch.	Uchennye = learned
Ucheb.	Uchebnyi = teaching
Unders.	Undersögelse, undersökni
Univ.	University, & *equiv.*
Verhdl.	Verhandlungen
Vidensk.	Videnskaps
Volc., Vulk.	Volcanolog-ical, -y &c.
Vses.	Vsesoyuznyi = All-Union
Vyssh.	Vysshikh = higher
Wiss.	Wissenschaft
Zap.	Zapiski = memoirs
Zav.	Zavodskaya = factory
Zaved.	Zavedenii = institution
Zeits.	Zeitschrift
Zhurn.	Zhurnal = journal
Ztg.	Zeitung

INDEX OF AUTHORS

Aagaard, P., 84M/1283
Aarhus, N., 84M/4309
Aba-Husayn, M. M., 84M/0141
Abbas, S. G., 84M/2112
Abbey, S., 84M/2410
Abbona, F., 84M/0201, 0442
Abdel Aziz, M. E. M., 84M/2414, 2420
Abdel-Meguid, A. A., 84M/0985
Åberg, G., 84M/1206, 1207
Aborenko, N. V., 84M/1800
Abraham, K., 84M/0883, 1929, 3136, 3829
Abrams, M. J., 84M/0244, 0245, 0277
Abranches, M. C. B., 84M/3646
Abriel, W., 84M/0198
Abrudean, M., 84M/2284
Abs-Wurmbach, I., 84M/0463
Acker, P. van, 84M/1401
Ackermand, D., 84M/0769, 0824, 3537, 4217
Ackermann, L., 84M/1849
Adachi, T., 84M/4258, 4599
Adam, A. I., 84M/3777
Adamides, N. G., 84M/2076
Adams, A. E., 84M/1064
Adams, A. S., 84M/0050
Adams, C. J., 84M/1216
Adams, F., 84M/2518, 3778
Adams, J. M., 84M/1267, 1319, 3732
Adams, J. W., 84M/1882
Adams, M. J., 84M/1272
Adams, W. A., 84M/0136, 3702
Adamson, A. C., 84M/2181, 2197, 3463, 3580
Adamyan, N. Kh., 84M/0272
Adib, D., 84M/2106
Adlam, K. A. McL., 84M/3918
Adler, D. M., 84M/0321
Ačebečić, B., 84M/3920
Afanasjev, G. V., 84M/0251
Agata, T., 84M/3381
Ageed, A. El, 84M/2128
Agiorgitis, G., 84M/2822
Agrawal, D. K., 84M/0325
Agrawal, O. P., 84M/2115
Agrawal, Y. K., 84M/0066
Aguayo, F. López, 84M/2702, 3475
Ahmad, Z., 84M/2112
Ahmed, Z., 84M/2993
Ahrendt, H., 84M/3268, 3270, 3279, 3283, 3284, 3295
Aiba, K., 84M/4502
Aires-Barros, L., 84M/2880, 3011
Aitken, B. G., 84M/0476
Aizenshtat, Z., 84M/0686, 4175
Akai, J., 84M/1343
Akaogi, M., 84M/2654, 3974
Akasaka, M., 84M/0164, 1847
Akayemov, S. T., 84M/0601
Akhmetova, G. L., 84M/3847
Akimoto, S.-I., 84M/2727
Akizuki, M., 84M/0180, 1589
Akizuki, M., 84M/3177
Al-Aasim, I. S., 84M/0607
Ala, M. A., 84M/4454
Alabaster, T., 84M/2142
Alaimo, R., 84M/1723
Al-Ansari, N. A., 84M/1780
Alapieti, T., 84M/4353
Albarède, F., 84M/0556, 3628, 4091, 4168
Al-Bassam, K. S., 84M/0331, 0604, 0807, 1510
Al-Bazzaz, A. H., 84M/0302
Albers, J. P., 84M/0216
Alberti, A., 84M/0181, 0815, 2531
Alberti, H., 84M/3262
Albertini, C., 84M/2310
Alberts, J. J., 84M/0327
Al-Dabbagh, I., 84M/0302
Al-Dahan, A. A., 84M/1510
Alderton, D. H. M., 84M/1808
Aldiss, D. T., 84M/3318
Aldwell, C. R., 84M/1530
Al-Dyni, N. K., 84M/1090
Aleinikoff, J. N., 84M/1663
Alekhin, Yu. V., 84M/1788
Aleksandrova, V. A., 84M/2165
Aleksenko, I. I., 84M/0430
Alekseyev, A. A., 84M/4374
Alekseyev, V. P., 84M/3881
Alexander, E. C., 84M/0003
Alexander, L. S., 84M/3940
Alexander, R., 84M/0699, 0700
Alexandrowicz, Z., 84M/4451
Alexiev, E., 84M/1664
Alfaro, P. E., Martinez 84M/3644
Alferez, F., 84M/3773
Alföldi, L., 84M/1528
Al-Gailani, M. B., 84M/4454
Algood, G. M., 84M/4251
Algood, R. W., 84M/4251
Ali, A. Jawad, 84M/1091
Ali, S. M., 84M/0302
Alías, L. J., 84M/3147, 3148
Alibert, C., 84M/0556
Alietti, A., 84M/2475
Al-Jabbari, M. H., 84M/1780
Al-Khalissi, F., 84M/0104, 0105
Allègre, C. J., 84M/0026, 0746, 2796, 2797, 2898, 2913, 3091, 3658, 3665, 4068, 4101, 4119, 4148, 4431, 4618
Allekseyeva, G. V., 84M/4374
Allen, D., 84M/3671
Allen, G. C., 84M/3672
Allen, J. R. L., 84M/0115
Allen, P., 84M/2972
Allen, P. L., 84M/3393
Allen, R., 84M/4444
Aller, R. C., 84M/0402, 2981, 4147
Allison, S. A., 84M/1419
Al-Mashhady, A. S., 84M/0140
Allmendinger, R. W., 84M/3326
Allsop, J. M., 84M/0959
Almeida, F. Moitinho de, 84M/3012
Almeida Saraiva, A. L., 84M/3582
Almukhamedov, A. I., 84M/1047
Al-Rawi, F. R. J., 84M/3584
Al-Samman, A., 84M/3517
Al-Shanti, A. M., 84M/2148
Alsinawi, S. A., 84M/0302
Alt, H. C., 84M/4149
Alt, J. C., 84M/2180, 3463, 3580
Altaba, M. Font, 84M/0766
Altiparmakov, D., 84M/2789
Altschuler, Z. S., 84M/2983
Altukhov, V. M., 84M/0304
Altun, Y., 84M/0260
Alvarez, L. W., 84M/1819
Alvarez, W., 84M/1819
Alyavdin, V. F., 84M/0827
Amara, M. Ben, 84M/1404
Amcoff, Ö., 84M/2699
Amdurer, M., 84M/0321
Ames, L. L., 84M/0312, 3744-3746, 3971
Amirkhanov, Kh. I., 84M/3629
Amirzhanov, A. A., 84M/3505
Åmli, R., 84M/0773
Amorós, J. L., 84M/0382, 2707, 2748
Amouric, N., 84M/1371
Amov, B. G., 84M/1660, 2793
Amrhein, C., 84M/1287
Amshinsky, N. N., 84M/0267
Amstutz, G. C., 84M/0259, 1056, 2079
Amthauer, G., 84M/0149, 0156, 1827, 4197
Anan'ev, S. A., 84M/0843
Anantha Iyer, G. V., 84M/2346, 3883, 3998
Anantha Murthy, K. S., 84M/4275
Ancochea, E., 84M/2876, 2877, 3419
Andăr, A., 84M/1463
Andăr, P., 84M/1463
Anders, E., 84M/3099
Andersen, T. B., 84M/1435, 1824
Anderson, H. J., 84M/1159
Anderson, J. R., 84M/3562
Anderson, O. L., 84M/2279
Anderson, P. C., 84M/3587
Anderson, R. E., 84M/0991
Anderson, R. F., 84M/2989
Anderson, R. N., 84M/3463, 3580
Anderson, R. Y., 84M/2985
Anderson, W. B., 84M/3777
Anderson Jr, A. T., 84M/0580, 1055, 2792
Andersson, A., 84M/1416
Anderton, R., 84M/0249, 4311
Andeweg, A. H., 84M/0072
Ando, K., 84M/0410, 1581, 1582
Ando, Y., 84M/3964
Andou, Y., 84M/3817
Andrade, A. A. Soares de, 84M/3455, 3456
André, F., 84M/0962
Andreev, P. I., 84M/0361
Andreeva, T. G., 84M/3847
Andres, H. R., 84M/4198
Andresen, A., 84M/3633
Andrew, A. S., 84M/2944
Andrews, A. J., 84M/2183
Andrews, C. J., 84M/1442
Andrews, J. N., 84M/3009
Andrews, J. R., 84M/3449, 4366
Andriessen, P. A. M., 84M/0009, 1205
Angel, R. J., 84M/3805, 4023
Angelier, J., 84M/1199
Angle, M. P., 84M/2227
Angus, J. G., 84M/4274
Anikin, L. P., 84M/4377
Ankinovich, E. A., 84M/1916
Ankinovich, S. G., 84M/1916
Annehed, H., 84M/2515
Annels, A. E., 84M/1466, 2569
Annersten, H., 84M/1849, 3792
Anokhina, L. K., 84M/3629
Anon., 84M/0922, 1182, 2450, 4387, 4392, 4434, 4563
Anseau, M. R., 84M/1561
Ansell, H. G., 84M/0882
Ansorge, R., 84M/1231
Antipin, V. S., 84M/4073, 4079
Antofilli, M., 84M/0086
Antweiler, R. C., 84M/0623
Aoki, K., 84M/0162
Aoki, M., 84M/1630
Aoki, S., 84M/1337
Aoki, Y., 84M/1847
Aparicio, A., 84M/3154
Aplonov, V. S., 84M/0271
Apollonov, V. N., 84M/1058
Apostolov, D. E., 84M/1664, 1725, 0439
Appel, P. W. U., 84M/2564, 2996
Apted, M. J., 84M/1347
Aquilano, D., 84M/3854
Arad, A., 84M/3013
Aragon, R., 84M/3987
Arai, T., 84M/2402
Arakelyants, M. M., 84M/2347, 4439
Araki, T., 84M/1367, 3236
Arana, R., 84M/3212, 3213
Arana-Castillo, R., 84M/3919
Aranovich, L. Ya., 84M/2642, 3329
Arcaro, N. P., 84M/0128
Archambault, G., 84M/3913
Archibald, D. A., 84M/4337
Arculus, R. J., 84M/4383
Argañaraz, R. A., 84M/0278
Argunov, K. P., 84M/3581
Arii, T., 84M/3199
Arima, M., 84M/2753
Árkai, P., 84M/3535
Arkhipenko, D. K., 84M/3165
Arman, B., 84M/0260

Armbruster, Th., 84M/0774
Armour-Brown, A., 84M/0248
Armstrong, E. J., 84M/4555
Armstrong, F. C., 84M/0261
Armstrong, J. T., 84M/0738, 3098
Armstrong, R. L., 84M/2359, 2837
Arnaudov, V., 84M/0801
Arnaudova, R., 84M/0801
Arnold, J. R., 84M/3114
Arnold, M., 84M/1862
Arnórsson, S., 84M/0648, 0649
Arora, H. C., 84M/2422
Arrese Serrano, F., 84M/2613
Arrhenius, G., 84M/2971
Artemenko, O. V., 84M/0231
Arth, J. G., 84M/1006
Arthur, M. J., 84M/0959
Artioli, G., 84M/3822
Aruscavage, P. J., 84M/1688
Arvidson, R. E., 84M/0242
Asada, E., 84M/2380
Asaka, M., 84M/0397, 0398
Asakawa, Y., 84M/3508
Asami, M., 84M/3002, 4499
Asaro, F., 84M/1819, 4418
Ashe, G. B., 84M/0074
Asheim, A., 84M/0773
Ashikhmina, N. A., 84M/4189
Ashley, R., 84M/0668
Ashton, J. H., 84M/1442
Ashwal, L. D., 84M/1149, 2361, 2777
Ashworth, J. R., 84M/1106, 2019, 2232, 3129
Aslam, M., 84M/3481
Aslanian, S. O., 84M/0439, 0865
Asmus, H. E., 84M/3620
Aspden, J. A., 84M/1030
Assaad, F. A., 84M/1195
Assaf, H. S., 84M/0985
Assaran, J., 84M/2609
Asselborn, E., 84M/2296
Astakhova, V. V., 84M/3818
Ataman, G., 84M/0019
Atanasov, V. A., 84M/0822, 0834, 0898
Atherton, M. P., 84M/1257
Atkin, D., 84M/0858
Atkins, M. P., 84M/1268
Atkinson, A., 84M/0348
Atkinson, D., 84M/0485
Atzori, P., 84M/3001, 3354
Aubouin, J., 84M/4619
Audley-Charles, M. G., 84M/1952
Agustsson, T. R., 84M/2785
Aurisicchio, C., 84M/3425
Austrheim, H., 84M/0004
Autio, L. K., 84M/2191
Auton, C. A., 84M/0309
Avison, M., 84M/3308
Avnimelech, Y., 84M/3931
Awramik, S. M., 84M/2338, 3617
Axen, G. J., 84M/3324
Axente, D., 84M/2284
Axon, H. J., 84M/4191
Ayhan, A., 84M/0258
Ayllón, M., 84M/2407
Ayora, C., 84M/0860
Ayres, L. D., 84M/2040
Ayrton, S., 84M/1045
Ayzikovich, A. N., 84M/1342
Azad, J., 84M/2434
Azéma, J., 84M/4619
Aziz, M. E. M. Abdel, 84M/2414, 2420
Azzaro, E., 84M/0653

Baadsgaard, H., 84M/1221
Babanskiy, A. D., 84M/2013
Baburin, L. M., 84M/2554
Bachheimer, J.-P., 84M/0473
Bachinski, S. W., 84M/4232
Back, W., 84M/3017
Bacon, C. R., 84M/4400, 4401
Bacon, M. P., 84M/2989, 3024, 3063
Bada, J. L., 84M/3101
Badalamenti, F., 84M/0653
Badalov, S. T., 84M/4269
Badár, J., 84M/0251
Badaut, D., 84M/0130
Badham, J. P. N., 84M/2582, 3587
Badiola, E. Rodríguez, 84M/3126, 3418
Badyukov, D. D., 84M/3961
Baedecker, P. A., 84M/4418
Baeza, L., 84M/2958
Bagdasarjan, G. P., 84M/0017
Bagdasarov, K. S., 84M/3830
Bagdasarov, Yu. A., 84M/2347, 3362
Bagenal, F., 84M/3087
Bagmut, N. N., 84M/0786, 2283
Baham, J., 84M/1285
Bahat, D., 84M/4299
Bahranowski, K., 84M/3755
Bai, J., 84M/3659
Bai, J.-C., 84M/4550
Bai, R., 84M/3686
Bai, Y., 84M/1496, 2350, 2851
Bai, Z.-G., 84M/1494, 2678
Baier, B., 84M/3294
Bailar, E., 84M/2604
Bailey, M. E., 84M/1154
Bailey, S. W., 84M/1374, 3806
Baillieul, A., 84M/1697
Baillif, P., 84M/0351
Baird, A. W., 84M/1121
Baisch, P. R., 84M/3620
Bajanik, S., 84M/0971
Bajo, C., 84M/0558, 0559
Bak, P., 84M/2650
Baker, E. M., 84M/2601
Baker, J. H., 84M/0618, 2992
Baker, M. B., 84M/0587, 3397
Baker, P. E., 84M/4132
Bakon, A., 84M/4039
Baksi, A. K., 84M/4155
Bakumenko, I. T., 84M/3361
Bakun-Czubarow, N., 84M/1133, 4370
Bal, K. D., 84M/1201
Balaes, A. M. E., 84M/0075, 2406
Balashov, Yu. A., 84M/0512
Balci, M., 84M/0257
Baldea, A., 84M/2284
Baldwin, B., 84M/3495
Balic-Žunić, T., 84M/0192
Balistrieri, L. S., 84M/0613
Balitskii, V. S., 84M/3847
Ball, G. C., 84M/4198
Ball, T. K., 84M/1812, 3034
Ballantine, J. A., 84M/1263
Ballantyne, J. M., 84M/4229
Ballantyne, S. B., 84M/2938
Ballard, R. D., 84M/2129
Ballestracci, R., 84M/4411
Balling, N., 84M/1168
Bally, A. W., 84M/1993
Balson, P. S., 84M/1069
Banat, K. M., 84M/1090
Bancroft, G. M., 84M/2439
Bandyopadhyay, P. K., 84M/4111
Banerjee, D. C., 84M/0575
Banerji, P.K., 84M/4076
Banin, A., 84M/3075, 3712
Bank, F. H., 84M/1637
Bank, H., 84M/0496, 1641, 1645, 1649, 1650, 4054
Bannikov, O. L., 84M/0469, 3165
Banno, S., 84M/2270, 4211
Baños, J. Olives, 84M/1371
Bansal, B. M., 84M/3069
Bansigir, K. G., 84M/4539
Bao, S.-L., 84M/2758
Baptista, R., 84M/2587
Baragar, W. R. A., 84M/0586
Barahona, E., 84M/2968
Barakso, J. J., 84M/4185
Barber, C., 84M/3943
Barber, D. J., 84M/1398, 3103
Barber, J., 84M/0670
Barber, J. P., 84M/1774
Barbieri, M., 84M/0532, 1079
Barbillet, J., 84M/3827
Barbulescu, A., 84M/1565
Barcelona, M. J., 84M/1243
Bard, J. P., 84M/2265
Bardintzeff, J. M., 84M/4218
Bareja, E., 84M/4477
Barelli, N., 84M/4248
Bargossi, G. M., 84M/3356
Bari, H., 84M/3215
Barka, A. A., 84M/1956
Barker, F., 84M/2343
Barker, P. F., 84M/3626
Barker, R. D., 84M/4546
Barker, S. E., 84M/2159
Barker, W. W., 84M/2680
Barley, M. E., 84M/2035
Bar-Matthews, M., 84M/0735
Barnes, C. G., 84M/2048
Barnes, H. L., 84M/2558
Barnes, J. R., 84M/1312
Barnes, L. C., 84M/2610
Barnes, R., 84M/2321
Barnes, R. G., 84M/0291
Barnes, R. P., 84M/0923, 3449, 3452
Barnes, S.-J., 84M/2041, 2043
Barnett, R. L., 84M/0788, 1696, 2855
Barnicoat, A. C., 84M/2257
Baronnet, A., 84M/0375, 1371
Baross, J. A., 84M/2801
Baroz, F., 84M/2072, 2093
Barr, S. M., 84M/2928, 3393
Barrandon, J.-N., 84M/1249, 1624
Barreiro, B., 84M/0581
Barrera, J. L., 84M/2748
Barrett, C. S., 84M/2449
Barrett, T. J., 84M/2189, 2190
Barriga, F., 84M/3502
Barron, C. N., 84M/3325
Barron, P. F., 84M/2522
Barros, J. Seabra[e], 84M/3066
Barry, A. P., 84M/4394
Barry, T. I., 84M/0425
Barskaya, N. V., 84M/2187
Barstow, R. W., 84M/2294
Barsukov, V. L., 84M/3077
Barsukova, L. L., 84M/0750
Bart, J. C. J., 84M/1628, 2533
Bartholomew, M. J., 84M/2362
Bartl, H., 84M/3849
Bartnitskiy, Ye[E]. N., 84M/1210
Barton, M., 84M/0561, 4224
Barton, M. D., 84M/3956, 4029, 4523
Bartoshinsky, V. Z., 84M/0862
Bartoshinsky, Z. V., 84M/3187
Bas, M. J. Le, 84M/2342
Bascio, A. Lo, 84M/3422
Basenyants, Sh. A., 84M/2213
Bashorin, V. N., 84M/4070
Basova, G. V., 84M/0892
Bass, J. D., 84M/3570
Bassett, M. G., 84M/4309
Bassett, W. A., 84M/0406
Bassi, U. K., 84M/3427
Bassoullet, J. P., 84M/4431
Bassyony, A. A. El, 84M/0284
Basu, A. R., 84M/0048
Basu Mallick, S., 84M/0993
Basutcu, M., 84M/1249, 1624
Batchelor, R. A., 84M/4252
Bateman, P. C., 84M/4341
Bath, M., 84M/3611
Batiza, R., 84M/3462, 4436
Batlle, J., 84M/0866
Batrokova, Yu. A., 84M/3985
Batterham, P. M., 84M/1430
Battey, M. H., 84M/1255
Battistin, S., 84M/2473
Battistini, G. Di, 84M/2878
Baturin, G. N., 84M/3055, 4000
Baturin, S. V., 84M/3797
Batyrmurzayev, A. S., 84M/3629
Baubron, J.-C., 84M/1025
Bauld, J., 84M/3490
Baum, J. L., 84M/3231
Baumann, A., 84M/0023
Baumer, A., 84M/1601
Baumgartner, F. C., 84M/2403
Baur, W. H., 84M/0184, 1354
Bayliss, P., 84M/1854, 3696
Bayly, M. B., 84M/3693

Bazarov, L. Sh., 84M/3814
Bazarova, T. Yu., 84M/0809, 0953
Bé, K., 84M/1226
Beamish, D., 84M/1163
Beard, D. W., 84M/2382
Beauchamp, J., 84M/1085
Beaufort, D., 84M/2490, 3498
Beaumier, M., 84M/4145
Beaumont, C., 84M/3593
Beauvais, A., 84M/0838
Beaver Jr, J. L., 84M/1181
Bébien, J., 84M/0962, 2093, 2102
Beccaluva, L., 84M/2097, 3420, 4428
Beck, C. L., 84M/0050
Beck, H. P., 84M/0447
Becker, K., 84M/3463, 3580
Becker, K. H., 84M/2683
Beckholmen, M., 84M/1118
Beckinsale, R. D., 84M/0024, 1991, 3338, 3643, 4314, 4359
Beddoe-Stephens, B., 84M/1030
Bedell, R. L., 84M/2937
Bedford, J., 84M/4449
Bedi, R. S., 84M/3506
Beek, P. C. J. M. van, 84M/2819
Begemann, F., 84M/0732
Begemann, M. J., 84M/3690
Beget, J. E., 84M/3948
Begheijn, L. T., 84M/2413
Behnke, D., 84M/2317
Behr, H.-J., 84M/3256, 3273, 3275, 3279, 3280, 3284, 3295
Beiersdorf, H., 84M/2174, 2175
Bein, A., 84M/0871
Belichenko, V. P., 84M/4048
Belkovskiy, A. I., 84M/3512
Bell, B. R., 84M/4363
Bell, C. M., 84M/3466, 4333
Bell, J., 84M/0321
Bell, K., 84M/1217
Bell, P. M., 84M/3676-3678, 3790, 3800, 3821, 3954
Bell, R., 84M/0669
Bellanca, A., 84M/1079
Bellary, V. P., 84M/0636
Bellido, F., 84M/3154
Bellieni, G., 84M/1027, 4402
Bellon, H., 84M/0925
Belov, N. V., 84M/0204, 2512, 2539
Belova, L. N., 84M/4212
Bel'skaya, N. P., 84M/0531
Beltrame, R. J., 84M/2009
Belyi, V. M., 84M/2187
Ben, D., 84M/4148
Ben Amara, M., 84M/1404
Ben-Avraham, Z., 84M/0214
Bendelow, V. C., 84M/1858
Bender, F., 84M/0081
Bender, J. F., 84M/3461
Beneke, K., 84M/1631
Benjamin, T. M., 84M/2661
Benkhelil, J., 84M/1191, 1192
Benmore, R. A., 84M/2841
Benna, P., 84M/4020
Bennema, P., 84M/0153, 0373
Bennett, H., 84M/2448
Bennett, J. M., 84M/3781
Bennington, K. O., 84M/0477, 0480
Benoit, V., 84M/4015
Benoit, W. R., 84M/2046
Bentley, H. W., 84M/2624
Bentzen, J. J., 84M/1632
Beran, A., 84M/2589, 3529, 3566-3568
Berckhemer, H., 84M/3294
Berezovskaya, V. V., 84M/3255
Berezovsky, F. I., 84M/2571
Berg, A. J. van den, 84M/0185
Berg, J. H., 84M/4483
Berg, W. A., 84M/1524
Bergasova, L. B., 84M/1941
Bergaya, F., 84M/0690
Bergen, M. J. van, 84M/4224
Berger, W. H., 84M/3027
Bergeron, M., 84M/2979
Bergman, S. C., 84M/2945
Berhane, Z., 84M/0300, 3923
Berkley, J. L., 84M/0732
Berg-Madsen, V., 84M/2205
Berlin, Yu. M., 84M/4176
Bernard-Griffiths, J., 84M/3636
Bernardini, G. P., 84M/0427
Bernasconi, A., 84M/4327, 4346
Berndt, K. A., 84M/2925
Berner, R. A., 84M/0069, 0462, 0693, 1755, 4062
Berrow, M. L., 84M/3938, 3939
Berry, L. G., 84M/1259, 3696
Berry, M. J., 84M/1196
Bershov, L. V., 84M/1395, 4269
Bertoldi, G., 84M/1866, 3603
Bertrand, H., 84M/3369
Bertrand-Sarfati, J., 84M/2215
Berzina, A. P., 84M/0225
Beskin, S. M., 84M/0992
Besson, J. M., 84M/2542
Beswick, A. E., 84M/0585
Bethke, P. M., 84M/3958
Bettenay, L. F., 84M/0031, 2035
Beukes, G. J., 84M/1905
Beukes, N. J., 84M/2555, 4456
Beus, A., 84M/1550
Beusen, J.-M., 84M/2881
Beveridge, D., 84M/4274
Bevier, M. L., 84M/0044
Beyer, R. P., 84M/0480
Bezrogova, E. V., 84M/2167
Bezvoda, V., 84M/4545
Bhargava, O. N., 84M/4329
Bhat, M. I., 84M/3373
Bhattacharjee, C. C., 84M/1048
Bhattacharya, N., 84M/3764
Bhattacharyya, D. P., 84M/1298
Bhattacharyya, H. N., 84M/3549
Bhattacharyya, T. K., 84M/3590
Bhattacherjee, A. K. De. S., 84M/3736
Bhattacherjee, S., 84M/3813
Bhola, A. M., 84M/1134
Bi, C., 84M/2576
Bianchi Potenza, B., 84M/3135
Bibby, H. M., 84M/4413
Bibikova, Ye[E]. V., 84M/1210, 3634
Bickle, M. J., 84M/0031, 2035
Bideau, D., 84M/2064
Bideaux, R., 84ZM/4609
Bielski, M., 84M/0656, 1777
Biggar, G. M., 84M/0358, 0460, 0461
Bindschadler, D. L., 84M/0242
Bingöl, E., 84M/0019
Binkele, L., 84M/4532
Birch, G. F., 84M/2615
Birch, W. D., 84M/0873, 1822
Birchall, J. D., 84M/2685
Bird, D. K., 84M/3510
Birdwhistell, S., 84M/1562
Birkenmajer, K., 84M/0945, 2355, 2356
Birnie, R. W., 84M/3137
Biscaye, P. E., 84M/2846, 3491
Bischoff, A., 84M/3092, 4193
Bischoff, J. L., 84M/3977
Bischoff, W. D., 84M/1910, 3219
Bish, D. L., 84M/2698
Bishop, A. C., 84M/2020, 3349
Bishop, F. C., 84M/1910, 3219
Bistricki, T., 84M/0661
Biswas, S., 84M/0740
Bizouard, H., 84M/1601
Bjørlykke, A., 84M/1668
Bjørlykke, K., 84M/2204
Black, L. P., 84M/2357, 3004, 3554, 4080
Black, P. M., 84M/3387
Black, R., 84M/3369
Blackbourn, G. A., 84M/3467
Blackwell, C. S., 84M/2530
Blair, E., 84M/0731
Blair, N., 84M/4204
Blais, J. A. R., 84M/4554
Blak, A. R., 84M/2281
Blake, R. L., 84M/2560
Blake, T. S., 84M/4331
Blake Jr, W., 84M/0047
Blamont, J., 84M/2455
Blanchard, D. P., 84M/0641
Blankenburg, H.-J., 84M/0518
Blattner, P., 84M/1666, 2896
Blenkinsop, J., 84M/1217
Blinova, G. K., 84M/0361
Bloch, S., 84M/4146
Bloom, P. R., 84M/0100
Blount, A. M., 84M/0298
Bluck, B. J., 84M/1718
Bobrova, I. P., 84M/3504
Bochkayev, F. I., 84M/4240
Bock, W.-D., 84M/3882
Bocquier, G., 84M/3758
Boctor, N. Z., 84M/3976, 4085, 4382, 4385
Bodek, E., 84M/3754
Boden, G., 84M/4209
Bodnar, R. J., 84M/3958
Boeglin, J.-L., 84M/0838
Boelrijk, N. A. I. M., 84M/0009, 1205
Boettcher, A. L., 84M/1568, 1622, 2641, 2723, 3400
Bogatikov, O. A., 84M/2013, 4189
Bogatov, V. I., 84M/0304
Bogdanov, N. A., 84M/2080
Bogdanov, Yu. A., 84M/0821
Bogdanova, A. N., 84M/1831
Bogner, J. E., 84M/1516
Bogoch, R., 84M/2025
Bogomolov, Yu. G., 84M/1789
Bohatý, L., 84M/1602
Bohlen, S. R., 84M/1568, 1622, 2641, 2723, 3125
Böhlke, J. K., 84M/4149
Bohor, B. F., 84M/4282
Boiko, D. D., 84M/1491
Boistelle, R., 84M/0201, 0374, 0442
Boivin, P., 84M/1719
Bojadžiev, S., 84M/1209
Bojadžieva, R., 84M/1725
Bok, L. D. C., 84M/1905
Boland, J. N., 84M/1606, 3516
Boland, M. G., 84M/1444
Boldrin, A., 84M/1077
Boles, J. R., 84M/4026
Bollingberg, H. J., 84M/3133
Bølviken, B., 84M/4183
Bonatti, E., 84M/0985
Bondarenko, I. N., 84M/1846
Bondarev, V. B., 84M/0446, 1801
Bondareva, O. S., 84M/3797, 3820
Bondi, M., 84M/0880, 2693, 2694
Bone, Y., 84M/3220
Boness, M., 84M/4152
Bonev, I. I., 84M/0898
Bonev, I. K., 84M/0806
Boni, M., 84M/1459
Bonissent, A., 84M/2501
Bonnell, D. W., 84M/0478
Bookin, A. S., 84M/1304, 1369
Boon, J. A., 84M/0395, 0396
Boonen, P., 84M/1751
Borchardt, R., 84M/4190
Borggaard, O. K., 84M/1300, 1301
Borgo, E., 84M/0086
Borisenko, L. F., 84M/0270, 1667
Borisenkov, V. I., 84M/1058
Bornhorst, T. J., 84M/2860
Borodaev, Yu. S., 84M/3210, 0821, 0859
Borodin, L. S., 84M/0538
Borodin, V. A., 84M/0537
Boronikhin, V. A., 84M/0252, 0836, 2184, 2186
Borradaile, G. J., 84M/3693, 4511
Borredon, R., 84M/1895
Borshchevskiy, Yu. A., 84M/1804
Borsuk, A. M., 84M/4439
Bortnikov, N. S., 84M/4266, 0855, 0859
Boscardin, M., 84M/3603

Bosshart, G., 84M/0487, 4042, 4058
Bostock, H. H., 84M/0947
Boström, K., 84M/2969
Bosworth, W., 84M/4470
Botkunov, A. I., 84M/3364, 3365
Bottinga, Y., 84M/4010
Bottoni, G., 84M/3606
Bouchez, J. L., 84M/4318, 4430
Boudreau, R. D., 84M/2629
Bougault, H., 84M/2158, 2193
Boullier, A. M., 84M/0022
Boulter, C. A., 84M/0904
Bourdillon, A., 84M/3103
Bourg, A., 84M/2632
Bourgois, J., 84M/4619
Boutron, C. F., 84M/2623
Bowen, R. W., 84M/1414
Bowers, T. S., 84M/2658, 2713
Bowes, D. R., 84M/1769, 2005, 2007
Bowles, J. F. W., 84M/0858, 1883
Bowman, H. R., 84M/4418
Boyadjiev, St. G., 84M/0935, 1209
Boyarko, G. Yu., 84M/0875
Boyce, A. J., 84M/0249, 1453, 4084
Boyce, J. M., 84M/3084
Boyd, F. R., 84M/3970, 4380, 4382
Boyd, R., 84M/1715
Boyd Jr, F. R., 84M/2451, 3399
Boyer, S. E., 84M/4342
Boyko, A. K., 84M/1210
Boyle, A. P., 84M/2125
Boyle, D. R., 84M/2926
Boyle, E. A., 84M/2960
Boynton, W. V., 84M/2805
Bozhkova, L. I., 84M/4164
Boztuğ, D., 84M/3359
Bradfer, N., 84M/1443
Bradley, J. P., 84M/3085
Bradley, M. W., 84M/2364
Bradshaw, J. Y., 84M/1002
Braga, M. A. S., 84M/2481
Braile, L. W., 84M/3406
Braithwaite, C. J. R., 84M/1092, 3478
Braithwaite, R. S. W., 84M/2290, 3249
Braithwaite, W. R., 84M/1666
Brakhfogel', F. F., 84M/0981
Brand, U., 84M/0611
Brandstätter, F., 84M/3828
Branson, K., 84M/0092
Bras, J., 84M/1390
Brastad, K., 84M/2255, 3518
Braterman, P. S., 84M/2780
Bray, A. R., 84M/0075
Bray, C. J., 84M/1682
Brayshaw, M. D., 84M/1418
Brazier, S. A., 84M/4419
Breaks, F. W., 84M/2929
Bredanova, N. V., 84M/2167
Bredell, J. H., 84M/0229
Breemen, N. van, 84M/3933
Breemen, O. van, 84M/1718
Breitschmid, A., 84M/1126
Brenner, F. J., 84M/2622
Brenninkmeijer, C. A. M., 84M/3007
Bresley, B. J., 84M/1536
Brett, N. H., 84M/0414, 0415
Brett, R., 84M/4199
Breuck, W. De, 84M/2207
Brewer, J. A., 84M/3585
Brewer, P. G., 84M/2989
Brichet, E., 84M/2169
Bridges, T. F., 84M/2291, 2292
Bridgewater, D., 84M/4124
Brigatti, M. F., 84M/2475, 2477
Briggs, P. H., 84M/0726
Briggs, R. M., 84M/1032, 1035
Bril, H., 84M/3875
Brindley, G. W., 84M/1262, 3835
Brinkmann, G., 84M/3088
Briot, P., 84M/1787
Briqueu, L., 84M/4109
Brizzi, G., 84M/4568
Brockamp, O., 84M/1486, 2588
Broecker, W. S., 84M/0089
Bronger, A., 84M/3767
Brook, M., 84M/1121, 1208
Brookins, D. G., 84M/1543, 4516
Brooks, C., 84M/0554
Brooks, M., 84M/3584
Brooks, R. R., 84M/0078
Brotzu, P., 84M/2056, 3425
Brousse, R., 84M/0925, 1840, 2057, 4120
Brovchuk, I. F., 84M/0537
Brown, A., 84M/2371, 2375
Brown, A. C., 84M/2580, 2853
Brown, A. G., 84M/1258, 1445
Brown, A. V., 84M/2133
Brown, C. E., 84M/3866
Brown, D., 84M/0277
Brown, G. C., 84M/2941, 4121
Brown, J. F., 84M/2869
Brown, L. L., 84M/0275
Brown, M., 84M/2138, 2245, 2272, 3349
Brown, P. E., 84M/0913
Brown, R., 84M/3194
Brown, R. E., 84M/0290
Brown, R. M., 84M/4198
Brown, R. R., 84M/0477
Brown, W. L., 84M/3173
Brown, W. M., 84M/4114
Brown Jr, G. E., 84M/1347
Browner, R., 84M/2680
Brownlee, D. E., 84M/3085, 3116
Brožek, V., 84M/4531
Brück, P. M., 84M/1452, 3346, 3347
Brückner, D., 84M/3492
Brückner, H.-P., 84M/0138
Brugge, J., 84M/4298
Bruiyn, H. de, 84M/1905
Bruk, J., 84M/1062
Brulhet, J., 84M/1457
Brummer, G., 84M/3709
Brummer, J. J., 84M/3898
Brun, J.-P., 84M/1965
Brunfelt, A. O., 84M/0553
Brunn, J. H., 84M/2082
Bruno, E., 84M/3803
Bryan, W. B., 84M/2063, 2732, 3383
Bryant, R. B., 84M/0059
Bryhni, I., 84M/2255
Bublikova, T. M., 84M/3847
Bubnova, R. S., 84M/0165
Bucher-Nurminen, K., 84M/3534
Buchinskaya, N. I., 84M/0785, 0786
Buck, M. D., 84M/1032
Buck, M. J., 84M/2043
Buckingham, W. F., 84M/0243
Buckley, H. A., 84M/1857
Budanova, K. T., 84M/3542
Buduan, P. V., 84M/2433
Bue, B., 84M/2964
Buerger, M. J., 84M/2496
Bugnon, C., 84M/1045
Buick, R., 84M/4463
Bukhbinder, G. V., 84M/0062
Bukin, A. S., 84M/0176, 1375
Bukurov, G. S., 84M/1420
Bulakh, A. G., 84M/3504
Bulanova, G. P., 84M/4263
Bulen'kov, N. A., 84M/0816
Bulkin, G. A., 84M/1660, 1661
Bullock, S. J., 84M/1430
Bunno, M., 84M/1364
Burbank, D. W., 84M/3315
Burch, C. R., 84M/2760
Burchart, J., 84M/0018
Burchfiel, B. C., 84M/3324
Burchill, S., 84M/1265
Burdige, D. J., 84M/1756
Burdon, D. J., 84M/1530
Burema, J., 84M/3756
Burg, J.-P., 84M/1974, 4475
Burgath, K., 84M/2135, 3196
Burger, K., 84M/3691
Burian, J., 84M/0282
Burke, E. A. J., 84M/0861
Burn, N., 84M/4198
Burn, R. W., 84M/4507
Burne, R. V., 84M/0319
Burnett, D. S., 84M/0077, 2660, 2661
Burnett, W. C., 84M/0612, 2615, 2991, 3666
Burnham, C. W., 84M/2730
Burns, C. E., 84M/0709
Burns, D., 84M/3864
Burns, D. A., 84M/1740
Burns, D. Thornburn, 84M/2414, 2420
Burns, K. A., 84M/0694
Burns, R. G., 84M/3206
Burns, V. M., 84M/3206
Burrett, C. F., 84M/4621
Burriesci, N., 84M/1628, 2533
Burt, D. M., 84M/1772, 2047
Burton, B., 84M/3997
Burwash, R. A., 84M/2925
Busby, J., 84M/3038
Büsch, W., 84M/1128
Buseck, P. R., 84M/0775, 2523, 3108, 3952, 4203
Busheva, E. B., 84M/4535
Busse, F. H., 84M/1160
Bussell, M. A., 84M/2049
Bussetti, S. G. de, 84M/1317
Bustillo Revuelta, M. A., 84M/0869, 1072, 3473, 3474
Butenko, B. P., 84M/0603
Butler, I., 84M/3703
Butler, P. C., 84M/1523
Butler, R. W. H., 84M/1948
Butt, C. R. M., 84M/1095
Büttner, W., 84M/3169
Büyükaşikoğlu, S., 84M/1955
Byars, L. G., 84M/2397
Byerlee, J. D., 84M/0370
Byers, C. D., 84M/0457, 2916
Bykova, A. V., 84M/4247
Byrappa, K., 84M/2710
Bysiek, M., 84M/0329
Bywater, S. K. G., 84M/2314
Bzowski, Z., 84M/3357

Caballero, E., 84M/2474
Cabanis, B., 84M/0552
Caboi, R., 84M/1674
Caby, R., 84M/3369, 3543
Cacho, L. García, 84M/3126, 3154
Caen-Vachette, M., 84M/2889, 3652
Cagatay, A., 84M/2060
Cai, C., 84M/2676, 2677
Cai, J., 84M/3889
Caignec, R. Le, 84M/1458
Cailleau, P., 84M/0383
Cairns-Smith, A. G., 84M/2780
Calanchi, N., 84M/0964
Calas, G., 84M/0419
Calderone, S., 84M/2209
Calderoni, G., 84M/4108
Callen, R. A., 84M/3488
Calligaris, M., 84M/1385
Calsteren, P. Van, 84M/1705
Calsteren, P. W. C. van, 84M/0024, 2813
Calvert, L. D., 84M/2383
Calvo-Flores, R. Delgado, 84M/2968
Camacho, B. Lopez, 84M/3644
Cambel, B., 84M/0017, 0564, 0565, 0566, 0966, 0969
Cambier, F., 84M/1561
Cambon, P., 84M/2158
Cameron, C. S., 84M/3324
Cameron, E. M., 84M/0542, 2834
Cameron, M., 84M/0004, 2519
Cameron, W. E., 84M/1731, 2034, 2084
Camfield, P. A., 84M/4548
Campa, M. F., 84M/0218
Campano, P., 84M/2957, 2958
Campá-Viñeta, J. A., 84M/3569
Campbell, F. A., 84M/1504, 2775
Campbell, I. H., 84M/2035
Campbell, J. L., 84M/2408

Campbell, T. J., 84M/1917, 3235
Campsie, J., 84M/1052
Candillier, A.-M., 84M/1338
Canev, D., 84M/1489
Canilho, M. H., 84M/3646
Canitez, N., 84M/1955
Canney, F., 84M/0668
Cannon, R., 84M/4560
Cantagrel, J.-M., 84M/1719
Canterford, J. H., 84M/4277
Cantinolle, P., 84M/3758
Canul, R., 84M/4421
Canuto, V. M., 84M/2785
Cao, Y., 84M/1051
Çapan, U., 84M/3457
Capedri, S., 84M/2878
Capobianco, J. A., 84M/3225
Carbonin, S., 84M/3803
Carder, K. L., 84M/1060
Cardile, C. M., 84M/2978
Cardoso, J. N., 84M/0698
Carenas, B., 84M/0863
Carey, E. A., 84M/3019
Cariati, F., 84M/0181, 1309, 1628, 2533, 3728
Carlo, E. H. De, 84M/3441
Carlson, R. W., 84M/2343, 2902, 3401
Carlson, W. D., 84M/1596
Carmichael, D. M., 84M/4227, 4337
Carmichael, I. S. E., 84M/1558, 1559, 2664, 4019, 4420
Carniglia, S. C., 84M/1583
Caron, J.-P. H., 84M/0988, 2057, 2058
Carothers, W. W., 84M/0390
Carozzi, A. V., 84M/1993
Carpenter, M. A., 84M/0166, 0452, 4031
Carpenter, M. S. N., 84M/2844
Carpenter, R., 84M/0326, 0328
Carr, M. J., 84M/2012
Carr, P. F., 84M/4113
Carr, R. G., 84M/1031
Carron, J. P., 84M/0594
Carruthers, R. M., 84M/4364
Carson, B., 84M/0128
Carstens, H., 84M/0805
Carswell, D. A., 84M/3517, 3519
Carter, J. S., 84M/1447
Carter, S., 84M/0177
Caruba, R., 84M/0419, 1601
Carvalho, D., 84M/2566
Cas, R. A. F., 84M/3432
Casas, J., 84M/0866
Casella, C. J., 84M/2002
Casey, J. F., 84M/3443
Cashion, J. D., 84M/3729, 3730
Caskie, D. R. Mac, 84M/2859
Cassan, J.-P., 84M/1063
Cassard, D., 84M/2136
Cassedanne, J. P., 84M/1920, 2331, 2766
Cassen, P. M., 84M/3086
Cassidy, J., 84M/2874
Cassie, V., 84M/1914
Castanon, A., 84M/2586
Castro, H., 84M/3917
Cater, F. W., 84M/3394
Cathelineau, M., 84M/1686, 2488
Cathles, L. M., 84M/1432
Catlow, C. R. A., 84M/1407, 2517
Catti, M., 84M/1360, 1361, 3849
Catto, N. R., 84M/2224
Cauët, S., 84M/1454, 1671, 1684
Cavarretta, G., 84M/1906
Cavell, P. A., 84M/1293
Cawthorn, R. G., 84M/0573, 1567, 1876
Cazalet, P. C. D., 84M/1450
Cecconi, S., 84M/3749
Cecile, M. P., 84M/2832
Celâl Şengör, A. M., 84M/1955
Celestini, S., 84M/2878
Celet, P., 84M/2103
Celico, P., 84M/1783
Cemič, L., 84M/2683
Cerling, T. E., 84M/0655
Cermak, F., 84M/1881
Černý, I., 84M/2590, 2827
Černý, P., 84M/3182
Cerri, C. C., 84M/3765
Cervelle, B., 84M/3827
Cesbron, F., 84M/0188, 2540, 3215
Chadderton, L. T., 84M/0013
Chadha, G. K., 84M/0206
Chadwick, A. V., 84M/1407
Chadwick, B., 84M/0954, 3655
Chakrabarti, B. K., 84M/3124
Chakraborti, M. K., 84M/0636
Chalabov, R. I., 84M/3629
Chamberlain, C. P., 84M/1152
Chambers, A. D., 84M/1681
Chambers, L. A., 84M/0319
Chamley, H., 84M/1338
Champness, P. E., 84M/0177
Chan, I., 84M/0357
Chandler, F. W., 84M/2584
Chandler, I. M., 84M/0643
Chandler, P., 84M/1989
Chandra, D., 84M/2561, 2824
Chandra, S., 84M/1821
Chang, I., 84M/1424
Chang, S., 84M/4204
Chang, S.-H., 84M/0667, 0668, 0673
Chanton, J. P., 84M/2984
Chao, G. Y., 84M/0758
Chapman, H. J., 84M/0031, 2035
Chapman, T., 84M/4300
Chapman, T. J., 84M/1944
Chappell, B. W., 84M/0578, 4075
Charbonneau, B. W., 84M/2932
Charlet, J. M., 84M/1805
Charlou, J.-L., 84M/4091, 4168
Chart, T. G., 84M/0425
Chartrand, F. M., 84M/2580, 2853
Chase, R. L., 84M/4118
Chatagnon, B., 84M/4081
Chatillon-Colinet, C., 84M/0449, 2646
Chatterjee, A. K., 84M/2923
Chatterjee, B. K., 84M/1093
Chatterjee, N. D., 84M/2751, 2752
Chattopadhyay, B. K., 84M/2028
Chaudhary, S. K., 84M/0206
Chauvel, C., 84M/0012, 2999, 4105, 4120, 0196
Chayes, F., 84M/3681, 4348
Cheadle, S. P., 84M/3391
Chebotarev, V. A., 84M/0763
Chekalin, V. M., 84M/0287
Chen, B., 84M/3911
Chen, C.-H., 84M/1585
Chen, C.-Y., 84M/2912
Chen, D., 84M/2573, 3858
Chen, G., 84M/1471, 2573
Chen, H., 84M/4087
Chen, J., 84M/2577
Chen, J. C., 84M/4090
Chen, J. H., 84M/3113
Chen, K., 84M/1871, 4112
Chen, M., 84M/1495, 4165
Chen, Q., 84M/1693
Chen, R., 84M/3167
Chen, S., 84M/2574
Chen, T. T., 84M/0758, 3233, 3249, 3878, 3902
Chen, W., 84M/2574, 4086
Chen, Y., 84M/1692, 2790, 3712, 4270
Chen, Z., 84M/2574, 2598, 3887
Chenet, P.-Y., 84M/0938
Cheng, K., 84M/1798
Cheng, Z., 84M/1796
Cherepivskaya, G. E., 84M/0895
Cherneva, Z., 84M/1664
Chernitsova, N. M., 84M/0886
Chernov, A. A., 84M/2456, 3962
Chernyshev, Yu. A., 84M/3540
Chernyshov, N. M., 84M/0830
Cherukuri, S. C., 84M/2382
Chesnokov, B. V., 84M/0895
Chi, C.-H., 84M/2755
Chiba, T., 84M/4225
Chihara, K., 84M/1366
Chikayama, A., 84M/1647
Chikhauoi, M., 84M/2885
Chisholm, J. E., 84M/1930
Chisholm, J. I., 84M/1068
Chistiakova, N. I., 84M/1939, 0886
Chon, M. C., 84M/0108, 0109
Chopin, C., 84M/3130
Choporov, D. Ya., 84M/2165
Choppin, G. R., 84M/2708
Chopra, P. N., 84M/0344
Chopra, S., 84M/3427
Chorowicz, J., 84M/1194
Chou, I.-M., 84M/0445
Choubert, B., 84M/1720
Choudhry, A. G., 84M/4396
Choudhuri, A., 84M/3006
Choukroune, P., 84M/1972
Chowdhury, A. N., 84M/0713
Chown, E. H., 84M/1997
Christensen, U., 84M/2668
Christiansen, E. H., 84M/1737, 2047
Christiansen, R. L., 84M/3405, 3408
Christoffersen, J., 84M/0428
Christoffersen, M. R., 84M/0428
Christoffersen, R., 84M/2662
Chronic, H., 84M/0088
Chryssoulis, S. L., 84M/0534, 1248
Chubarov, V. M., 84M/2182, 4239, 4259
Chudaev, O. V., 84M/2164
Chukhrov, F. V., 84M/1186, 1885, 3255, 3836, 4069
Chung, Y., 84M/3025, 3063
Chunnett, I., 84M/1677
Chuoc, P. V., 84M/1627
Chupin, V. P., 84M/3361
Chuprunov, E. V., 84M/2500
Church, T. M., 84M/2982
Churchman, G. J., 84M/3719, 3726
Chuvyrov, A. N., 84M/3680
Ci, X., 84M/1693
Cianciulli, J., 84M/4606
Čičel, B., 84M/0118
Cichón, G., 84M/0975
Claesson, S., 84M/0008, 1289, 3654
Clague, D. A., 84M/0293, 2482, 3434, 3438, 3440
Claoue-Long, J. C., 84M/3663
Clapp, T. V., 84M/1267
Clark, A. H., 84M/2955
Clark, A. M., 84M/2804, 3253
Clark, D. A., 84M/2974
Clark, D. R., 84M/1936
Clark, D. T., 84M/0684
Clark, J., 84M/3108
Clark, J. B., 84M/4543
Clark, J. R., 84M/2423, 2424
Clark, K. F., 84M/0219
Clark, P. E., 84M/3729, 3730
Clarke, D. B., 84M/2018
Clarke, G. S., 84M/0046
Clarkson, P. D., 84M/1146
Clark III, R. A., 84M/0327
Clauer, N., 84M/0602, 3270, 3284
Clayburn, J. A. P., 84M/2869
Claypool, G. E., 84M/0705
Clayton, C., 84M/4449
Clayton, P. M., 84M/3709
Clayton, R. A. S., 84M/0609, 1099
Clayton, R. N., 84M/0520, 0521, 0622, 3093, 3110, 4205
Clemency, C. V., 84M/3738
Clemens, J. D., 84M/1622
Clement, D. E., 84M/1267, 1319
Clemente, R. Rodríguez, 84M/0377, 0869
Cliff, R. A., 84M/3635
Clifford, P. M., 84M/2274

Cline, J. P., 84M/2384
Clocchiatti, R., 84M/0985
Cloke, P. L., 84M/2585
Clough, B. J., 84M/1044
Clough, P. W. L., 84M/0627
Clowes, R. M., 84M/1196
Coachman, L. K., 84M/2794
Coats, J. S., 84M/3497
Cobbing, E. J., 84M/3398
Cobbold, P. R., 84M/1963, 1967
Cobler, R., 84M/2846
Cochran, J. K., 84M/3019, 3024, 3063
Cochran, J. R., 84M/3614
Coe, K., 84M/0954
Coey, J. M. D., 84M/2282
Cohen, B. L., 84M/4061
Cohen, R. E., 84M/3105
Colantoni, P., 84M/0985
Cole, D. R., 84M/2659
Cole, J. W., 84M/1034
Cole, T. G., 84M/0797, 2976
Coleman, L. C., 84M/0890
Coleman, M. L., 84M/1670, 2829, 2835, 2841, 4077, 4084
Colin, F., 84M/0133
Collado, A. Kihien, 84M/1227
Collerson, K. D., 84M/0030, 0640, 3659, 4124
Colletta, B., 84M/1199
Collin, G., 84M/0196, 0197
Collin, P. J., 84M/1799
Collins, A. T., 84M/0182
Collins, W., 84M/0667, 0668, 0673
Colliston, W. P., 84M/4326
Comba, C. D. A., 84M/1431
Comès, R., 84M/0196, 0197
Comin-Chiaramonti, P., 84M/0963, 4402
Compagnoni, R., 84M/2098, 2260
Compston, W., 84M/0004, 0030, 0032, 0602, 2351, 3659
Condie, K. C., 84M/2972
Condliffe, E., 84M/4254
Condomines, M., 84M/2867
Condrate Sr, R. A., 84M/1316
Coney, P. J., 84M/0218
Cong, B.-L., 84M/1138
Coninck, F. De, 84M/1325
Conklin, N. M., 84M/1859, 4213
Conor, C. H. H., 84M/2612
Conquéré, F., 84M/3208, 3350
Conrad, G., 84M/1026
Conrad, W. K., 84M/3367
Constantinides, C. C., 84M/2074
Constantinou, G., 84M/2134
Convert, J., 84M/3636
Cook, F. A., 84M/3579
Coolen, J. J. M. M. M., 84M/2266
Coombs, D. S., 84M/3553
Coonrad, W. L., 84M/1007
Cooper, A. F., 84M/3389
Cooper, A. R., 84M/2663
Cooper, B. J., 84M/3487
Cooper, C., 84M/0957
Cooper, D. C., 84M/3472
Cooper, D. M., 84M/3733
Cooper, J. A., 84M/0034
Cooper, J. E., 84M/3049
Cooper, M. A., 84M/1949, 1951, 4312
Cooper, R. A., 84M/1098
Cooper, S. B. Nikon, 84M/1635
Cooper, W., 84M/2616
Coote, A. R., 84M/1753
Coote, G. E., 84M/2978
Coplen, T. B., 84M/3062
Coppens, P., 84M/3785
Cordani, U. G., 84M/3006
Corgan, J. X., 84M/2364
Cormack, A. N., 84M/1407
Cornejo, J., 84M/1312
Cornelis, A., 84M/1270
Cornford, C., 84M/3640
Cornides, I., 84M/0511
Cornwell, J. D., 84M/0247
Corrado, G., 84M/3422
Corre, O., 84M/2193
Cortecci, G., 84M/0098, 1673, 2833
Cortelezzi, C. R., 84M/0131, 0278, 0549, 1017, 1018, 2051
Cortés, E., 84M/2958
Cortesogno, L., 84M/3132
Costa, U. R., 84M/1696
Costanzo, P. M., 84M/3738
Costello, J., 84M/4135
Cotten, J., 84M/1025
Cottrant, J. F., 84M/0419
Couderc, J.-J., 84M/1390
Coulbourn, W. T., 84M/3465
Coulon, C., 84M/4371
Couper, A. G., 84M/3253
Courtin, B., 84M/2103
Courtney, R. C., 84M/3593
Cousens, B. L., 84M/4118
Coutures, J.-P., 84M/0416, 3827
Couty, R., 84M/2542
Couzi, M., 84M/3827
Coward, M. P., 84M/1120, 1947, 1970, 3314, 4310, 4324
Cox, F. C., 84M/1068
Cox, G. W., 84M/4465
Cox, K. G., 84M/1706
Cox, S. F., 84M/4504
Coyne, L. M., 84M/3740
Crafford, T. C., 84M/1043
Craig, H., 84M/3025, 3433, 3439
Craig, J., 84M/3524
Craig, J. R., 84M/0849, 1466
Crane, A., 84M/0010
Craven, J. A., 84M/0448
Craw, D., 84M/3558
Crawford, A., 84M/2878
Crawford, A. R., 84M/1821
Cremers, A., 84M/1295, 3750
Crespi, R., 84M/3135
Crettenden, P. P., 84M/2762
Criddle, A. J., 84M/1930, 3239
Cristini, A., 84M/1747
Crock, J. G., 84M/0726
Crocket, J. H., 84M/4395
Cronan, D. S., 84M/0654, 2166, 2168
Cronin, D. J., 84M/1563
Cronin, J. R., 84M/3101
Crosby, S. A., 84M/3703
Cross, B. W., 84M/0614
Cross, J. B., 84M/2404
Cross, T. S., 84M/0614
Croudace, I. W., 84M/0091
Crough, S. T., 84M/0900, 2365
Crovisier, J. L., 84M/0351
Crowell, J. M., 84M/0311
Crowley, J. C., 84M/1736
Crowley, P., 84M/4484
Crowningshield, R., 84M/0488, 0498, 0499
Crowther, D. L., 84M/2688
Crozaz, G., 84M/3109
Cruz, B. de la, 84M/2586
Cso, J., 84M/4202
Cubínek, J., 84M/0527
Cui, J., 84M/1474
Culbard, E., 84M/1517
Cullers, R. L., 84M/2809, 2810
Cumming, G. L., 84M/1196
Cumming, L. M., 84M/0947
Cummings, M. L., 84M/4515
Cummings, W., 84M/1836
Cundari, A., 84M/3140, 4409
Cunningham, C. G., 84M/3929
Cunningham, G. J., 84M/1560
Cunningham, K. W., 84M/1286
Cura, A. García del, 84M/3475
Curi, N., 84M/0059
Curiale, J. A., 84M/0677
Curnelle, R., 84M/1071
Currie, J. B., 84M/3468
Curry, W. B., 84M/2986, 2987
Cusicanqui, H., 84M/3018
Cutler, J., 84M/1962
Cuttler, A. H., 84M/3703
Czamanske, G. K., 84M/1853
Czank, M., 84M/0454, 1617

Dadák, V., 84M/1899
Daddazio, P. L., 84M/1697
Dadze, T. P., 84M/2749, 4038
Dagallier, G., 84M/1456
Dahlin, D. C., 84M/0275
Dahlman, B., 84M/1416
Dai, C., 84M/2237
Dai, J., 84M/2845
Daieva, L., 84M/1664
Dakin, F. M., 84M/3424
Daley, J. S., 84M/3635
Dallmeyer, R. D., 84M/0041, 2358
Dal Negro, A., 84M/1837
Dal Piaz, G. V., 84M/4106
Dalrymple, G. B., 84M/0003
Daly, D., 84M/2617, 3010
Daly, E. P., 84M/3010
Daly, J. S., 84M/0010
Daly, M. C., 84M/4324
D'Amico, C., 84M/3353, 3356
Damme, H. van, 84M/0690
Damon, P. E., 84M/0219
Danchin, R. V., 84M/0885
Danckwerth, P., 84M/2666, 3975, 4036
Daněk, M., 84M/0812
Dang, N. V., 84M/2282
d'Anglejean, B., 84M/3947
Danin, A., 84M/3774
Dara, A. A., 84M/1916
Darch, J. P., 84M/0670
D'Arco, P., 84M/1021
Dardel, J., 84M/1457, 1458
Darimont, A., 84M/1809
Darnley, A. G., 84M/2922
Das, M. Sankar, 84M/0724, 2842
Das Gupta, K., 84M/2391
Das Gupta, U., 84M/3468
Dashevsky, Yu. A., 84M/0471
Dávidová, Š., 84M/0800
Davidson, A., 84M/2930
Davidson, J. P., 84M/4131
Davidson Jr, D. M., 84M/1953
Davies, B. E., 84M/0315, 1515, 1525
Davies, G., 84M/1567
Davies, G. F., 84M/3608
Davies, G. R., 84M/2871, 4314
Davies, P. K., 84M/2654
Davies, R. E. S., 84M/1005
Davis, G. L., 84M/2348
Davis, G. R., 84M/2596
Davis, M. M., 84M/3701
Davis, P. M., 84M/4558
Davis, S. N., 84M/1738, 2624
Davis, T. E., 84M/2118
Davison, W., 84M/2625, 2965
Davison Jr, F. C., 84M/3588
Dawson, G. B., 84M/4413
Dawson, J. B., 84M/0989, 1659, 4383
Dawson, K. M., 84M/0213
Day, R. W., 84M/3319
Day, W. C., 84M/1010
Dayhoff, M. O., 84M/3053
Deakin, M., 84M/2991
de Almeida, F. Moitinho, 84M/3012
Dean, A. C., 84M/2295
de Andrade, A. A. Soares, 84M/3455, 3456
Deans, T., 84M/0858, 3370, 3497
Dearnley, R., 84M/3333
Debrabant, P., 84M/1338
Debras, G., 84M/1250
De Breuck, W., 84M/2207
de Bruiyn, H., 84M/1905
de Bussetti, S. G., 84M/1317
De Carlo, E. H., 84M/3441
Decker, M. de, 84M/2206
Decker, R. W., 84M/3408
Declercq, J.-P., 84M/1402
De Coninck, F., 84M/1325
De Decker, M., 84M/2206
Dedić, L., 84M/4480
Deeny, D. E., 84M/1451
Defant, M. J., 84M/2909
Definis, A., 84M/2605
De Fino, M., 84M/3139, 3355
De Fouquet, C., 84M/1371
de Gaag, P. van, 84M/4298
de Galdeano, C. Sanz, 84M/3500, 3919

de Gennaro, M., 84M/1783, 1864
De Geyter, G., 84M/1865
De Geyter, R., 84M/1992
DeGraff, J. V., 84M/4341
De Grave, E., 84M/1401
de Groot, P. A., 84M/0618, 2992
De Groot, P. B., 84M/2400
Dehm, R. M., 84M/1811
de Jesus Tavares, M., 84M/3066
de Jong, B. H. W. S., 84M/2497
Dejonghe, L., 84M/1455, 1484, 1671, 1805, 1878
Dejou, J., 84M/1345
de Kerneizon, M. Le Guen, 84M/0594
De Kimpe, C. R., 84M/1345, 3704
de la Cruz, B., 84M/2586
del Cura, A. García, 84M/3475
Delage, P., 84M/3753
Delaloye, M., 84M/0019, 2083, 2095
Delaney, J. R., 84M/0293
de la Nuez, J., 84M/3415
de la Peña, J. A., 84M/0863, 1074, 2614
de Laeter, J. R., 84M/0031, 0723, 2035
de Leeuw, J. W., 84M/0678, 0701
DeLaune, R. D., 84M/4071
Deletter, M., 84M/1561
Deleveux, M. H., 84M/4401
Delgado Calvo-Flores, R., 84M/2968
Deliens, M., 84M/0889, 0893, 4285, 4290
Delitsyn, L. V., 84M/0392
Delitsyna, L. M., 84M/0392
Della Ventura, G. C., 84M/2234
Del Monte, M., 84M/1520
del Moro, A., 84M/2877, 4106
DeLong, S. E., 84M/3444
Delor, C. P., 84M/4475, 4476
Delpierre, M. E., 84M/2934
del Villar, L. Peréz, 84M/3172
Demaiffe, D., 84M/2998
Demange, J., 84M/1025
Demarchi, G., 84M/0963
DeMaster, D. J., 84M/3032, 4147
Dembicki Jr, H., 84M/0683
Demchuk, I. G., 84M/0435
de Meent, D. van, 84M/0681
Demidenko, V. A., 84M/3818
Demin, B. G., 84M/2554, 2791, 4082
Demin, Yu. I., 84M/3541, 3541
Demina, L. I., 84M/3541
Deming, J. W., 84M/2801
De Moor, G., 84M/2206
Demortier, G., 84M/0519, 1250
Dempster, T. J., 84M/3639
Den, T., 84M/4602
Denanot, M.-F., 84M/2714
den Berg, A. J. van, 84M/0185
den Driessche, J. van, 84M/1959
den Eeckhout, B. van, 84M/2262, 3310
Deng, H.-Y., 84M/4550
Deng, J., 84M/2573
Deng, W., 84M/2116
Deng, Y., 84M/2577, 3214
den Hul, H. J. van, 84M/4111
Denis, J., 84M/0363
Denisenko, V. K., 84M/0539
Denishina, N. D., 84M/4049
Denner, W., 84M/0447
De Paolo, D. J., 84M/0589, 3115
De Paor, D. G., 84M/1960
De Pieri, R., 84M/1851
Depmeier, W., 84M/3833
Derco, J., 84M/0280
der Eerden, J. P. van, 84M/0153, 0373, 2653
der Hoek, B. van, 84M/0373
der Hoek, S. van, 84M/1657
Deriu, M., 84M/3420
der Leeden, M. C. van, 84M/0387
Derouane, E. G., 84M/1250
De Roy, G. L., 84M/2518
Déruelle, B., 84M/2956
der Voo, R. Van, 84M/1165
der Westhuizen, W. A. van, 84M/1905
de S. Jayawardena, D. E., 84M/0265
Des Marais, D. J., 84M/3070, 4204
Desai, H. B., 84M/0724
Desmet, A., 84M/2071, 2093
de Souza Santos, H., 84M/2095, 4027
Desprairies, A., 84M/2150
Detrick, R. S., 84M/2081
Deutsch, A., 84M/2341
Devaraju, T. C., 84M/2266, 4275
de Velde, G. M. H. van, 84M/1387
de Villiers, J. E., 84M/1467
Devine, J. D., 84M/4426
Devlin, S. P., 84M/2600
DeVore, G. W., 84M/2065, 3446, 3447
de Vusse, R. van, 84M/0848
De Walque, L., 84M/1685
Dewendra, J. D., 84M/0415
de Wit, M. J., 84M/2119
De Witte, S.-M., 84M/1805
de Wolff, P. M., 84M/1348-1350, 3784
Dexter-Dyer-Grosovsky, B., 84M/2778
Dhir, R. K., 84M/2671
Di Battistini, G., 84M/2878
Dickson, D. P. E., 84M/2965
Dibb, T. E., 84M/1169
Dick, H. J. B., 84M/0574
Dickin, A. P., 84M/0014, 0588, 0619, 1707, 4358
Didier, P., 84M/3758
Diebolt, J., 84M/4081
Dieterle, M. A., 84M/1810
Dietrich, D., 84M/0633, 4321
Dietrich, H., 84M/3533
Dietrich, R. V., 84M/1259
Dietrich, V., 84M/2896
Dietrich, V. J., 84M/2084
Dietvorst, P., 84M/1117
Dikov, Yu. P., 84M/3255, 3836, 4189
Dill, H., 84M/1460, 2856
Dillard, J. G., 84M/1315, 2688
Dillen, H., 84M/1897
Dilli, K., 84M/3772
Dimitrov, O. L., 84M/0898
Dimitrov, S., 84M/0842
Dimroth, E., 84M/1998, 1999
Din, V. K., 84M/0773
Ding, T. P., 84M/0730, 4127
Ding, X., 84M/3688
Dinsdale, A. T., 84M/0425
Dinur, D., 84M/0686
Di Sabatino, B., 84M/2234
Disnar, J.-R., 84M/1797
Dissanayake, C. B., 84M/2973
Distler, V. V., 84M/2186
Dixon, J., 84M/1119
Dixon, J. B., 84M/0140, 0141, 1335, 3711, 3777
Dixon, J. M., 84M/2336
Dixon, K., 84M/1242, 2426, 2442
Dixon, T. H., 84M/0021, 2910, 4436
Dmitriyev, L. V., 84M/0512
Doberšek, M., 84M/0399
Dobretsov, N. L., 84M/2117
Dobrodeyev, O. P., 84M/3031
Docka, J. A., 84M/4483
Dodge, F. C. W., 84M/0547, 0591
Doe, B. R., 84M/3930, 4401
Doig, R., 84M/0040, 0584
Dolfi, D., 84M/3138
Dolgushina, A. A., 84M/0267
Dolino, G., 84M/0473
Dolivo, E., 84M/0930
Doll, C. G., 84M/2319
Dollase, W. A., 84M/2183
Dol'nikov, V. A., 84M/2492
Domeneghetti, C., 84M/3145
Domeneghetti, M. C., 84M/1839
Dominik, J., 84M/2618, 3944
Don, J., 84M/4491
Donato, J. A., 84M/0958
Dong, J.-L., 84M/2758
Dong, Y. B., 84M/0034
Dongarrà, G., 84M/0653
Donnay, G., 84M/2511
Donnay, J. D. H., 84M/2511
Donnelly, T. H., 84M/0544, 1500
Doody, J. J., 84M/3584
Doorn, D., 84M/4298
Dormaar, J. F., 84M/0674
Dornberger-Schiff, K., 84M/1372
Dorokhin, V. M., 84M/1789
Dorokhova, G. I., 84M/1938
Doroshev, A. M., 84M/2728
Dorris, S. E., 84M/1157
Došen-Šver, D., 84M/3721
Dostal, J., 84M/0586, 0594, 2885, 2897
Dostmann, H.-J., 84M/2297
Dougan, T. W., 84M/2239
Douglas, L. A., 84M/3670
Doukhan, J. C., 84M/4318, 4525
Doval, M., 84M/2702
Dowler, M. J., 84M/0837, 2971
Dowse, M., 84M/3553
Doyle, L. J., 84M/1060
Draganić, I. G., 84M/2789
Draganić, Z. D., 84M/2789
Dragović, D., 84M/4141
Drake, M. J., 84M/3071, 3112
Drake Jr, A. A., 84M/4443
Drees, L. R., 84M/0073
Drennon, B. J., 84M/0311
Drever, J. I., 84M/0623
Drexler, J. W., 84M/2860
Driessche, J. van den, 84M/1959
Driscoll, C. T., 84M/3933
Drits, V. A., 84M/0176, 1304, 1369, 1386, 1885, 2165, 3751, 3836
Drnzík, E., 84M/0565
Droop, G. T. R., 84M/3534
Drumel, B., 84M/1805
Drury, S. A., 84M/0024, 0637, 1136
Drzymała, J., 84M/4253
Du, L., 84M/1768
Du, Q., 84M/1495
Du, S., 84M/1690
Duarah, R., 84M/1048
Duba, D., 84M/2276, 2556
Dubernat, J., 84M/3718
Dubessy, J., 84M/2945
Dubik, O. Yu., 84M/0798
Dubinin, V. G., 84M/0531
Dubińska, E., 84M/0117
Dubler, E., 84M/1388
Dubovskii, A. B., 84M/3847
Dubreuilh, J., 84M/2476
Duchateau, N., 84M/2881
Duchesne, J. C., 84M/1897
Duchi, G., 84M/0857
Ducloux, J., 84M/0838
Ducrot, J., 84M/0022
Dudas, M. J., 84M/3724, 3770
Dudeney, A. W. L., 84M/3725
Dudouit, I., 84M/1390
Duedall, I. W., 84M/2656
Duennebier, F. K., 84M/2337
Duff, K. L., 84M/4340
Duff, P. McL. D., 84M/0921
Duffield, W. A., 84M/4421
Düggelin, M., 84M/1178
Duigou, J. Le, 84M/0411
Duke, J. M., 84M/3856
Dukhovskiy, A. A., 84M/0539
Dulski, P., 84M/0825, 1810
Dunbar, J., 84M/3058
Duncan, A. R., 84M/4117
Dungan, M. A., 84M/0641, 2719
Dunlop, D. J., 84M/1154, 1155

Dunn, P. J., 84M/0796, 0882
Dunn, P. J., 84M/0884, 0896, 1886, 1889, 1913, 1915, 1917, 1927, 1935, 1943, 3231, 3234, 3235, 3240, 3242, 3244, 3245, 3248, 4284, 4291, 4606
Dunn Jr, M. L., 84M/1505
Duplessey, J.-C., 84M/2169
Dupré, B., 84M/2898, 4101, 4119, 4133
Dupuy, C., 84M/0586, 0594, 1719, 2136, 2885, 2897
Duran, P., 84M/0416
Durand, B., 84M/3056
Duroc-Danner, J. M., 84M/1653
Ďurovič, S., 84M/1372, 1373
Durrance, E. M., 84M/1158
Dusel-Bacon, C., 84M/3556
Duyk, F., 84M/2761
Dwornik, E. J., 84M/3170
Dyck, W., 84M/2980
Dymek, R. F., 84M/3155
Dymond, J., 84M/2846, 2866, 4144
Dypvik, H., 84M/2964
Dyrek, K., 84M/1314
Dziedzic, A., 84M/0973

Eadington, P. J., 84M/1502, 3859
Earle, M. M., 84M/2272
Eastman, M. P., 84M/0074
Eastoe, C. J., 84M/0543
Easton, A. J., 84M/0063, 1857
Eastwood, N. J., 84M/2293
Eberhart, J. P., 84M/0351
Eberl, D. D., 84M/1334
Ebert, J. M., 84M/0506
Ebihara, M., 84M/0752
Eble, E., 84M/2002
Echeverría, L. M., 84M/4133
Ecker, A., 84M/1777
Edel'shteyn, I. I., 84M/1422
Eder, F. W., 84M/2453, 3260, 3268
Edgar, A. D., 84M/0590, 2753
Edmond, J. M., 84M/2800
Edwards, J. W. F., 84M/4555
Edwards, M. H., 84M/0242
Eeckhout, B. van den, 84M/2262, 3310
Eerden, J. P. van der, 84M/0153, 2653
Effenberger, H., 84M/2543, 2548, 2549, 3568, 3851
Efimova, E. S., 84M/3189
Egashira, K., 84M/0102
Eggler, D. H., 84M/0346, 1570, 2730
Eggleton, R. A., 84M/4238, 4257
Eglinton, G., 84M/0698
Együd, K., 84M/0296
Ehinger, R., 84M/2046
Eichelberger, J. C., 84M/4097
Eichin, R., 84M/1178
Einaga, H., 84M/3951
Eissen, J.-P., 84M/1047
Ekremsæter, J., 84M/4183
Ekstrom, A., 84M/3855
Ekweozor, C. M., 84M/1793
El Ageed, A., 84M/2128
El-Amamy, M. M., 84M/3741
El Bassyony, A. A., 84M/0284
Elboushi, I. M., 84M/2142
Elderfield, H., 84M/3028, 3030, 4162
Elders, W. A., 84M/3168, 3510
Ellgaard, L., 84M/0615
Elliott, D., 84M/1945, 1962
Ellis, A. J., 84M/4160
Ellis, J., 84M/3043
Ellis, M. S., 84M/2671
Ellis, P. G., 84M/0845, 4538
Ellis, P. J., 84M/0715
Ellis, R. M., 84M/1196
Ellis, W. K., 84M/2443
Ellwood, B. B., 84M/3588
Elmi, C., 84M/3649
Elmore, D., 84M/2624, 3114
El Reedy, M. W., 84M/0984
Elrod, L. W., 84M/0679
El-Sayed, A. A. Y., 84M/1086
Elsheimer, H. N., 84M/0591
Elsinger, R. J., 84M/2631
El Sokkary, A. A., 84M/0984
El Tahir, M. A., 84M/0985
Elthon, D., 84M/0333, 2120, 3443, 3981, 4444
Embey-Isztin, A., 84M/2884
Emeleus, C. H., 84M/0919, 3338, 4359
Emelyanov, E. M., 84M/2990
Emerman, S. H., 84M/1187
Emerson, S. R., 84M/0612
Emilia, D. A., 84M/3424
Emmermann, R., 84M/1722, 2172, 2178, 2179, 2195, 3463, 3580
Emo, G. T., 84M/1441
Emofurieta, W. O., 84M/2889
Enami, M., 84M/1143, 3166, 4503
Endo, J., 84M/3199
Endo, M., 84M/2701
Endo, T., 84M/2463
Endo, Y., 84M/0057
Endres, H., 84M/3838
Endres, R., 84M/2875
Engel, M. H., 84M/3102
Engel, P., 84M/0192
Engel, W., 84M/3257, 3260, 3263, 3268, 3269
Engin, T., 84M/0257, 3903
England, P., 84M/4379
Englert, P., 84M/2388, 1816
Englund, J.-O., 84M/1784
Enriquez, J. L., 84M/0413
Ensling, J., 84M/3767
Epel'baum, M. B., 84M/2861
Epel'baum, M. E., 84M/0391
Épova, E. I., 84M/4049
Ercan, T., 84M/3358
Erd, R. C., 84M/1853, 4287
Erdmer, P., 84M/2273
Erez, J., 84M/0517
Ericksen, G. E., 84M/0303
Ericsson, T., 84M/0202, 3715
Eriksson, G., 84M/1566, 1574
Eriksson, K. A., 84M/2975, 3479
Erk, W. van, 84M/0372
Erlank, A. J., 84M/0574, 0885, 4117
Erlank, A. R., 84M/1705
Ernst, H., 84M/1380
Ernst, W. G., 84M/2233, 3550, 4498
Erre, L., 84M/0181, 1309, 3728
Erslev, E. A., 84M/4514
Esbensen, K. H., 84M/0956
Escorza, C. Martin, 84M/0869
Esdaile, R. J., 84M/3057
Espitalié, J., 84M/4179
Essene, E. J., 84M/2251, 1909, 2655, 3121, 3125, 3390, 3559, 3563
Estefan, S. F., 84M/1744
Estep, M. L. F., 84M/4169, 4170, 4172, 4173
Etheridge, M. A., 84M/2252, 4504
Ethier, V. G., 84M/1504
Etoubleau, J., 84M/2193
Eugster, H. P., 84M/2640
Eugster, O., 84M/0742
Evans, B. W., 84M/4508
Evans, D. W., 84M/0327
Evans, J. A., 84M/2733, 3643, 4314
Evans, K. L., 84M/2425
Evans, O. C., 84M/3396
Evans, R., 84M/4426
Evans Jr, H. T., 84M/3251
Evans, W. S., 84M/3049
Evarts, R. C., 84M/4441
Everingden, R. O. van, 84M/0663
Evirgen, M. M., 84M/3129
Evstigneeva, T. I., 84M/0892, 1926
Ewers, G. R., 84M/1500
Exley, C. S., 84M/3344
Exley, R. A., 84M/0989, 1679, 2836
Eyzaguirre, V. R., 84M/3899

Fabbri, A. G., 84M/2939
Fabiánová, R., 84M/0280
Fabre, J., 84M/3369
Fabriès, J., 84M/3350
Fagot, M., 84M/1390
Fahn, R., 84M/1271
Faiq, S., 84M/2408
Fairchild, I. J., 84M/3470
Fallick, A. E., 84M/0588
Fälth, L., 84M/2515
Fan, J., 84M/1798
Fang, Y., 84M/4292
Farago, M. E., 84M/1518, 2620
Fardy, J. J., 84M/3043, 4113
Farinha Ramos, J. M., 84M/3036
Farmer, J. G., 84M/1522
Farmer, V. C., 84M/1272, 2467, 3727
Farn, A. E., 84M/1655
Farquharson, G. W., 84M/1100
Farrand, M., 84M/3194
Farrar, E., 84M/4337
Farrar, S. S., 84M/1220
Fates, D. G., 84M/3396
Fatkhutdinov, D. Kh., 84M/0272
Fat'yanov, I. I., 84M/4259
Faupl, P., 84M/2589, 3529
Faure, G., 84M/0049
Fawcett, T. G., 84M/2389
Fayzullin, R. M., 84M/4280
Fayzullina, T. N., 84M/4280
Feather, C. E., 84M/2403
Fechter, H., 84M/3773
Federico, M., 84M/4216
Fehr, T., 84M/1923
Feigel, F., 84M/0138
Feigenson, M. D., 84M/2911, 2951
Feininger, T., 84M/4522
Feiss, P. G., 84M/2604
Fejdi, P., 84M/0076
Fejer, E. E., 84M/1930, 3253
Feklichev, V. F., 84M/0150
Feklichev, V. G., 84M/3081, 3161
Felice, G., 84M/0135
Fender, B. E. F., 84M/1407
Fenderl, K., 84M/1271
Feng, J., 84M/3685, 3686, 4165
Feng, Z., 84M/2575
Fenner, F., 84M/1536
Fenogenov, A. N., 84M/4373
Ferguson, A. K., 84M/3140
Ferguson, C. C., 84M/4487
Ferguson, J., 84M/0319, 0704, 1500, 1791
Ferguson, R. B., 84M/1405
Ferla, P., 84M/1723, 3001, 3354
Ferland, R., 84M/4554
Fernandes, A. Peinador, 84M/1458
Fernandes Porto, M. J., 84M/2474
Ferng, Y. L., 84M/1288
Ferraiolo, J. A., 84M/1943
Ferrara, C., 84M/1747
Ferrara, G., 84M/4107
Ferraris, G., 84M/0154, 3787, 3849
Ferreira, M. Portugal, 84M/3351
Ferreira Pinto, A. F., 84M/3352, 3455, 3456
Ferreiro, E. A., 84M/1317
Ferreri, M., 84M/1783
Ferrière, J., 84M/2103
Ferrini, V., 84M/4108
Ferry, J. M., 84M/1150, 1253, 1546, 1547, 1771, 1772, 2277, 3160, 4157
Fey, M. V., 84M/3711
Fiedler, H. J., 84M/0138, 2433, 2479
Field, D., 84M/0627, 1204
Fijał, J., 84M/3720
Filatov, E. I., 84M/0287
Filatov, S. K., 84M/0165, 0421, 1941
Filatova, L. K., 84M/0287

Filippidis, A., 84M/3792
Fin'ko, V. I. , 84M/3836
Findlay, R. H., 84M/4621
Finger, L. W., 84M/0168, 0345, 0878, 3202, 4523, 4528
Fink, J. H., 84M/1042
Finkel, R. C., 84M/1734, 3027, 3063
Finkelman, R. B., 84M/3170
Finlay, B. J., 84M/2625
Finlay, S., 84M/1440
Finn, C. W. P., 84M/1575
Finnerty, A. A., 84M/3970
Fino, M. De, 84M/3139, 3355
Fiorentini, M. P., 84M/1556
Fireman, E. L., 84M/4198
Fischer, R. X. , 84M/4291
Fisher, P. C., 84M/2074
Fisher, R. V., 84M/3699
Fisk, M. R., 84M/0448
Fiske, R. S., 84M/3412
Fitch, F. J., 84M/2344, 3642
Fitches, W. R., 84M/1046, 3524
Fitton, J. G., 84M/1701
Fitzgerald, J. D., 84M//4080
Fleck, R. J., 84M/0991
Fleet, A. J., 84M/2812
Fleet, M. E., 84M/0788, 1588, 1608, 2183
Flegal, A. R., 84M/3026
Flehmig, W., 84M/3263, 3267
Fleischer, M., 84M/3694
Fleischer, R. L., 84M/0389
Flem, G. Le, 84M/1404
Fletcher, I. R., 84M/0033, 3664
Flintoft, N. W., 84M/2762
Flippen, B., 84M/1779
Florence, T. M., 84M/3043
Flörke, O. W., 84M/2509, 3816
Flotow, H. E., 84M/2647
Flower, M. F. J., 84M/2154, 2155, 2162
Flowers, G. C., 84M/3979
Floyd, P. A., 84M/2872
Foden, J. D., 84M/4115
Foley, J. Y., 84M/0274
Folgueras-Dominguez, S., 84M/2773
Folk, R. L., 84M/0871
Font Altaba, M., 84M/0766
Fontboté, L., 84M/1056
Fontes, J. C., 84M/2150
Fookes, C. J. R., 84M/3855
Foord, E. E., 84M/1859, 1882, 3237, 4213
Forbes, B. G., 84M/3194
Forbes, R. B., 84M/4508
Ford, C. E., 84M/0448
Ford, C. H., 84M/1096
Ford, K. L., 84M/2936
Ford, T. D., 84M/4340
Forgáč, J., 84M/0526
Foris, C. M., 84M/2375
Forman, J. M. A., 84M/2855
Forster, S. C., 84M/3642
Forsyth, D. A., 84M/1196
Forti, L., 84M/3138
Foster, H. L., 84M/3556
Foster, J. J., 84M/3659
Foulon, J., 84M/1338
Fountain, D. M., 84M/3300
Fouquet, C. De, 84M/1371
Fournier, M., 84M/0940
Fournier, R. O., 84M/0366, 0369
Fowler, A. D., 84M/0584
Fowler, M. B., 84M/1714
Fox, J. S., 84M/3857
Fox, L. E., 84M/0642
Fox, P. J., 84M/2081
Fox, S. W., 84M/4135
Frache, R., 84M/2431
Fraga, H., 84M/0766
Francheteau, J., 84M/2149, 4550
Franchini-Angela, M., 84M/3854
Franci, M., 84M/3749
Francis, D., 84M/2042, 2044
Francis, E. H., 84M/0915, 0916
Francis, T. J. G., 84M/3580
Franco, E., 84M/1864
Frank, E., 84M/1045
Frank, R., 84M/3945
Franke, W., 84M/3257, 3259, 3260, 3263, 3268, 3269
Frank-Kamenetsky, V. A., 84M/0170, 0899
Frantz, J. D., 84M/1603, 3955, 4029
Franz, E.-D., 84M/3989
Franz, G., 84M/0400, 3204, 4490
Franzmeier, D. P., 84M/0059
Fraser, A. R., 84M/1272, 1936, 2546, 3742
Frater, K. M., 84M/1498, 1499
Fredericks, P. M., 84M/3735
Fredriksson, K., 84M/0737
Freed, R. L., 84M/0129
Freeman, L. A., 84M/3103
Freeman, T., 84M/1076
Freestone, I. C., 84M/0360
Freeth, S. J., 84M/4617
Freiberg, D. A., 84M/1508
Freitsch, R., 84M/0832
Frenkel, H., 84M/1287
Frenkel, M., 84M/1313
Frenzel, G., 84M/1637, 3501, 4464
Fressel, W., 84M/1341
Freund, F., 84M/0519, 4529
Frey, F. A., 84M/0574, 2807, 2912, 3434, 4100, 4107
Frey, M., 84M/1848
Fricke, A., 84M/3192
Friedman, G. M., 84M/2225
Friedrich, G., 84M/1761
Friedrichsen, H., 84M/2161, 2189, 4072
Friend, C. R. L., 84M/2248, 3379, 4494
Frikh-Khar, D. I., 84M/4189
Fritz, P., 84M/0660, 0662
Fritz, S. J., 84M/2460
Fritzsch, E., 84M/3988
Froelich, A. J., 84M/1164
Froelich, P. N., 84M/2991
Fröhlich, K., 84M/3297
Frolova, L. P., 84M/0826
Frolova, T. I., 84M/1712
Fromberg, E. D., 84M/2015
Fromson, S., 84M/0090
Frost, R. L., 84M/2522
Froude, D. O., 84M/0032, 2351
Fry, N., 84M/2458
Fryer, B. J., 84M/1735
Fryer, C., 84M/0489, 0498, 0499, 4056, 4057
Fu, J., 84M/4177
Fu, Z., 84M/0943
Fuchs, W. H., 84M/2567
Fuess, H. J., 84M/1827
Fuge, R., 84M/4063
Fujii, N., 84M/2491
Fujii, T., 84M/2682
Fujiki, Y., 84M/1392
Fujimaki, H., 84M/2905
Fujimoto, M., 84M/4588-4590
Fujimura, A., 84M/3100
Fujinawa, A., 84M/3429
Fujino, K., 84M/1362
Fujiwara, I., 84M/2380
Fujiwara, T., 84M/4221, 4591-4596
Fujiyoshi, A., 84M/1860
Fukao, Y., 84M/4556
Fukuoka, M., 84M/3893
Fukuoka, T., 84M/3093
Fullagar, P. D., 84M/2362
Fumerton, S. L., 84M/4394
Furnes, H., 84M/0553, 2123, 2127, 2342, 4099, 4354
Furque, G., 84M/1017, 2051
Furuie, O., 84M/4588
Furuta, T., 84M/2196
Fusi, A., 84M/3135
Fusi, P., 84M/3749
Futa, K., 84M/1732, 4436
Fyfe, W. S., 84M/2012, 2855, 3502, 3765
Fyffe, L. R., 84M/0039
Fysh, S. A., 84M/3729, 3730, 3735

Gaag, P. van de, 84M/4298
Gaál, G., 84M/3874
Gabelica, Z., 84M/1250
Gabites, J. E., 84M/0037
Gaboriaud, R.-J., 84M/2714
Gabrielsen, R. H., 84M/4323
Gafoor, S. N., 84M/3702
Gaft, M. L., 84M/4269
Gagny, C., 84M/2071, 2102
Gainsford, G. J., 84M/2383
Gairola, V. K., 84M/4002
Gait, R. I., 84M/0839
Gajewski, D., 84M/3294
Gâlâbova, I. M., 84M/0479
Galaburda, Yu. A., 84M/0978, 3880
Galdeano, C. Sanz de, 84M/3500, 3919
Gale, G. H., 84M/2127
Gali, S., 84M/0766, 0860, 1359
Galii, S. A., 84M/2571
Gałkiewicz, T., 84M/1461
Galkina, T. N., 84M/1665
Galland, D., 84M/4081
Gallego, M. Rodríguez, 84M/3172
Gallegos, E. J., 84M/3051
Galli, E., 84M/2532
Gamarnik, M. Ya., 84M/0786
Gamble, D. S., 84M/3050
Ganapathy, R., 84M/3117
Gandhi, S. S., 84M/2931
Ganeev, I. G., 84M/1395
Gangopadhyay, P. K., 84M/2218
Ganguly, J., 84M/4008
Ganguly, S., 84M/3574, 3575
Gannett, M. W., 84M/4417
Gansser, A., 84M/0941, 2896
Gao, X., 84M/3870
Gao, Y., 84M/2269
Gapais, D., 84M/1972
Garanin, V. K., 84M/1873, 3365, 4535
Garavelli, C. L., 84M/1745, 2838
Garbauskas, M. F., 84M/2378, 2395
Garber, J., 84M/2985
García, M. O., 84M/2916
García, V. González, 84M/3201
García Cacho, L., 84M/3126, 3154
Garcia-Cervigon, A., 84M/3172, 3500
García del Cura, A., 84M/3475
Garcia-Ruiz, J. M., 84M/0385, 0388, 1074, 2657, 2707
Gardiner, P. R. R., 84M/3348
Gardner, L. R., 84M/0470
Gardner, W. D., 84M/3491
Gariépy, C., 84M/0554
Garlicki, A., 84M/1750, 3921
Garnsey, R. G. T., 84M/2443
Garrels, R. M., 84M/0362, 1754, 4062
Garson, M. S., 84M/3497, 1949
Garty, J., 84M/3774
Garuti, G., 84M/3195
Garvey, R. G., 84M/2385
Gash, P. J. R., 84M/3587
Gaspar, J. C., 84M/3193, 3371
Gasparik, T., 84M/4013
Gass, I. G., 84M/2067, 2070, 2148, 2870, 3372
Gass, K. N., 84M/2870
Gasse, F., 84M/0940
Gat, J. R., 84M/1776
Gatehouse, B. M., 84M/1389
Gatliff, R. W., 84M/3341
Gaudette, H. E., 84M/0039
Gaugler, K. A., 84M/2745
Gaultier, J.-P., 84M/1306
Gauthier, A., 84M/1997
Gautier, D., 84M/3080
Gautier, D. L., 84M/1327
Gavrilov, V. I., 84M/0535
Gazdik, G. C., 84M/0299
Gazzoni, G., 84M/1360, 1361
Gbelsky, J., 84M/0757, 0966
Ge, C., 84M/2848
Ge, J., 84M/1475
Gealey, W. K., 84M/2089
Gebauer, D., 84M/2087
Gebert, W., 84M/0883, 1929, 2509
Gedcke, D. A., 84M/2397

Gee, D. G., 84M/1416
Gee, R. D., 84M/0033
Geets, S., 84M/2207
Gehlen, K. von, 84M/0844, 1677, 1870
Gehling, J. G., 84M/1096
Gehringer, R. C., 84M/2385
Geiger, C. A., 84M/1374
Geissman, J. W., 84M/1165
Gelato, L. M., 84M/3786
Gélinas, L., 84M/4125
Gellatly, A. F., 84M/1215
Gellings, P. J., 84M/1387
Gelmini, R., 84M/0985
Genkin, A. D., 84M/0892, 1926, 3883
Genkina, E. A., 84M/3834
Gennaro, M. de, 84M/1783, 1864
Geodekyan, A. A., 84M/4176
Georgala, D., 84M/3008
George, M. C., 84M/1912
Gerard, P., 84M/1305
Gerasimov, A. Yu., 84M/0062
Geras'kina, O. Yu., 84M/2679
Gerber, M. E., 84M/1080
Gerdes, K. D., 84M/3586
Gerlach, D. C., 84M/0587
Germain, G., 84M/0893
Germann, K., 84M/1810
Gerron, R. A., 84M/2388
Gerson, R., 84M/3774
Gerthofferová, H., 84M/0120
Gervais, F., 84M/0473
Gessa, C., 84M/1309, 3728
Gevork'yan, S. V., 84M/3573, 4048
Geyter, G. De, 84M/1865, 1992
Ghazali, S. A., 84M/3318
Gheith, A., 84M/1748
Ghent, E. D., 84M/1148
Ghiara, M. R., 84M/1783
Ghiorso, M. S., 84M/2664
Ghodgaonkar, G. S., 84M/0636
Ghose, S., 84M/0203
Ghosh, D. B., 84M/2114
Ghosh, K. P., 84M/3547
Ghosh, S. K., 84M/1093, 1094, 2219
Ghosh, T. K., 84M/3549
Gianfagna, A., 84M/4216
Giannetti, B., 84M/3421, 4108
Giannini, W. F., 84M/1636
Giardini, D., 84M/4557
Gibb, F. G. F., 84M/3180, 4356, 4358
Gibb, R. A., 84M/1197
Gibbons, M. J., 84M/0682
Gibbons, W., 84M/1123, 3643
Gibbs, A. D., 84M/1950, 4313
Gibbs, A. K., 84M/3325
Gibbs, R. B., 84ZM/4608
Gibson, H. L., 84M/1431
Gibson, M. J., 84M/1522
Giese, P., 84M/3274
Giese Jr, R. F., 84M/3738
Gieskes, J. M., 84M/1756, 3028
Gifford, S., 84M/2624
Gijbels, R., 84M/2881
Gilbert, T. D., 84M/0676
Giletti, B. J., 84M/1736
Gilkes, R. J., 84M/2712
Gill, G. T. S., 84M/3480
Gillam, A. H., 84M/0676, 1799
Gillespie, J. G., 84M/0021
Gillessen, B., 84M/4319
Gillet, P., 84M/3995
Gillieron, F., 84M/1457
Gilmore, J. S., 84M/4207
Gilson, J.-P., 84M/1250
Ginderow, D., 84M/0188, 2540
Gindy, A. R., 84M/0122
Ginzburg, A. L., 84M/1171, 1185
Gioan, P., 84M/3459
Giordano, M., 84M/2533
Girardeau, J., 84M/4015, 4431
Girardi, V. A. V., 84M/2050
Girnis, A. V., 84M/4492
Girod, M., 84M/1026
Girou, A., 84M/0383
Girsperger, S., 84M/0445
Girty, G. H., 84M/3322
Giudice, A. Lo, 84M/2883, 3354
Giuseppetti, G., 84M/2507
Gize, A. P., 84M/4482
Gladkikh, V. S., 84M/3332
Gladney, E. S., 84M/0709, 0722
Glaessner, M. F., 84M/2339
Glasby, G. P., 84M/4464
Glassley, W. E., 84M/0626, 2231
Glasson, D. R., 84M/3703
Glazunova, A. L., 84M/0826
Gleadow, A. J. W., 84M/0038
Glebashev, S. G., 84M/4280
Gledhill, A., 84M/4162
Gleitzer, C., 84M/1576
Glen, R. A., 84M/3181, 3489, 3661
Glikson, A. Y., 84M/3300, 3336
Glomb, A., 84M/1177
Glover, J. K., 84M/4337
Glover, R. B., 84M/1666
Glover III, L., 84M/1220
Glyuk, D. S., 84M/2681
Gnoevaja, N., 84M/0823
Godard, G., 84M/3515
Godinho, M. M., 84M/3174-3176
Godwin, C. I., 84M/0215
Goehner, R. P., 84M/2378, 2395
Goel, P. S., 84M/0733
Goettel, K. A., 84M/3677, 4187
Goetz, A. F. H., 84M/0238, 0245
Goetzinger, M. A., 84M/3158, 3226
Goff, B., 84M/4488
Goff, J. C., 84M/0703
Goguel, R., 84M/0071, 0658
Gohn, E., 84M/3292
Gold, C. M., 84M/1293
Goldberg, E. D., 84M/3936
Goldberg, M. C., 84M/1286
Goldberg, S., 84M/2604
Golden, A., 84M/3776
Goldhaber, M. B., 84M/1699, 3991
Goldich, S. S., 84M/2412
Golding, S. D., 84M/0546
Goldman, D. S., 84M/2415
Goldsmith, J. R., 84M/0520, 0521, 1597, 2726
Goldstein, S., 84M/2875
Golightly, J. P., 84M/3898
Golovachev, V. P., 84M/2512
Gol'shev, S. I., 84M/2864
Golubyev, V. N., 84M/3377
Gönçüoğlu, M. C., 84M/1131
Gong-Collins, E. J., 84M/2229
Gonska, H., 84M/0519
Gonzalez, L., 84M/3705
Gonzalez, R. D., 84M/1540
González García, V., 84M/3201
González Lopéz, J. M., 84M/2613
Gooding, J. L., 84M/3093
Goodman, B. A., 84M/0468, 2467
Goodwin, A. M., 84M/3005
Gopalakrishna, D., 84M/1136
Gorb, A. M., 84M/0790
Gorbachev, N. S., 84M/3950, 4535
Gorbunova, Z. N., 84M/2493
Gorchakov, P. N., 84M/1689
Gordon, L., 84M/2846
Gordon, R. M., 84M/3029
Goreglyad, A. V., 84M/4376
Gorelov, G. F., 84M/0790
Gorman, R. C., 84M/3865
Gormly, J. R., 84M/1793
Gorokov, S. S., 84M/3188
Gorovoi, A. F., 84M/3217
Gorshkov, A. I., 84M/1885, 3255, 3836, 4212
Gorskaya, M. G., 84M/0895, 0899
Gorton, M. P., 84M/2041
Goryayinov, I. M., 84M/0570
Gosso, G., 84M/3153
Goswami, J. N., 84M/3095
Goto, T., 84M/1579
Gottardi, G., 84M/0179
Gottschalk, K., 84M/4560
Götzinger, M. A., 84M/2593
Gouchi, N., 84M/2270
Goulding, K. W. T., 84M/1307, 1308
Goulet, N., 84M/1998, 1999
Gove, H. E., 84M/2624, 3114
Govorov, I. N., 84M/0990
Gower, C. F., 84M/4128, 4395
Graas, G. van, 84M/0701
Gracheva, T. V., 84M/1210
Grade, J., 84M/3757
Gradusov, B. P., 84M/2167
Graeser, S., 84M/1178
Graetsch, H., 84M/3816
Graf, D. L., 84M/4138
Graf, J. L., 84M/2809, 2810
Graham, A. M., 84M/2950
Graham, C. M., 84M/0630, 1702, 4025, 4520
Graham, D. J., 84M/4413
Graham, G., 84M/2111
Graham, R. H., 84M/1046
Graham, S. H., 84M/1319
Grainger, P., 84M/1158
Gramaccioli, C. M., 84M/2313
Grambling, J. A., 84M/4230
Grammeltvedt, G., 84M/2140
Granath, V. C. Hover, 84M/1115
Grandin, G., 84M/1465
Grandstaff, D. E., 84M/2581
Granovsky, A. G., 84M/0234
Grant, N. K., 84M/2954
Grapes, R. H., 84M/3553, 4438
Gratier, J. P., 84M/1966, 3957
Grave, E. De, 84M/1401
Gray, D. R., 84M/4305
Gray, F. L., 84M/4059
Gray, J. T., 84M/0145
Graziani, G., 84M/2368, 3134
Greaves, M., 84M/4162
Green, A. G., 84M/1196
Green, D. H., 84M/3511
Green, G. W., 84M/4315
Green II, H. W., 84M/4296
Green, P. F., 84M/3624
Green, R. W., 84M/3294
Green, T. H., 84M/2857
Greenland, L. P., 84M/4414
Greenwood, H. J., 84M/0450
Greenwood, W. R., 84M/0991
Gregg, J. M., 84M/1599
Gregory, R., 84M/1269
Gregson, D., 84M/1407
Gregus, J., 84M/0764
Greig, K. M., 84M/0630
Grellet, B., 84M/1189
Grennan, E. F., 84M/1441, 1444
Grenne, T., 84M/2140, 4427
Grew, E. S., 84M/0770, 3128, 3656, 4495
Grey, I. E., 84M/1389, 2692
Gribble, C. D., 84M/1257
Grice, J. D., 84M/1644
Griffin, B. J., 84M/2153
Griffin, W. L., 84M/0880, 2263, 3385
Griffiths, J. R., 84M/0215
Grigor'eva, T. R., 84M/0304
Grigor'yev, N. A., 84M/1342
Grigor'yeva, L. V., 84M/3360
Grigoriev, A. P., 84M/0981
Grillini, G. C., 84M/0135
Grimes, K. G., 84M/3319
Grimsel, C., 84M/3294
Grimvall, G., 84M/4542
Grinchenko, Yu. I., 84M/2899
Grinenko, V. A., 84M/2187
Gritsik, V. V., 84M/0862
Grizzle, P. L., 84M/0695
Gromet, L. P., 84M/0593, 4517
Gronemeier, K., 84M/1341
Grønlie, G., 84M/1985
Gronvold, K., 84M/2867
Groot, P. A. de, 84M/0618, 2400, 2992
Groshong Jr, R. H., 84M/4320
Grosovsky, B. D. D., 84M/2229
Gross, G. A., 84M/2552
Grossman, J. N., 84M/0736
Grossman, L., 84M/0735, 4200
Grosy, A. E., 84M/0299

Grosz, A. E., 84M/1658
Grote, C., 84M/3268
Grotzinger, J. P., 84M/3494
Grousset, F., 84M/1743
Grove, T. L., 84M/0587, 2732, 3397
Groves, D. I., 84M/0031, 0536, 2035, 3861
Grozdanov, L., 84M/0823
Grube, C. H., 84M/2320
Grundy, H. D., 84M/3819
Grünenfelder, M., 84M/2087
Grunin, V. S., 84M/0165
Gu, D., 84M/3689
Gu, P., 84M/2553
Guan, R., 84M/3831
Gübelin, E. J., 84M/0484, 0497, 1633, 2767, 3134
Gude 3rd, A. J., 84M/0813
Gudmundsson, A., 84M/4301
Gudramovics, R., 84M/1790
Gueguen, Y., 84M/4296
Guen de Kerneizon, M. Le, 84M/0594
Guendon, J. L., 84M/3758
Guerra, I., 84M/3422
Guerra, N., 84M/2957, 2958
Guggenheim, S., 84M/3809
Guha, J., 84M/3913
Guillemot, D., 84M/2078
Guillou, J.-J., 84M/1862
Guinness, E. A., 84M/0242
Gukasjan, R. C., 84M/0017
Gulbrandsen, R. A., 84M/3999
Gulley Jr, G. L., 84M/2363
Gulson, B. L., 84M/0288, 2854
Gulyaev, A. P., 84M/0272
Gumuzzio, J., 84M/0866
Gunawardene, M., 84M/0502, 1638, 1640, 2765, 4045
Guner, M., 84M/1198
Gunnlaugsson, E., 84M/0648, 0649
Gunter, W. D., 84M/0445, 0620
Gunzler, V., 84M/0156
Guo, B., 84M/2574
Guo, D.-Y., 84M/3782
Guo, Q.-T., 84M/2674, 2675, 2677
Guo, R., 84M/4461
Guo, W., 84M/1691
Guo, Z., 84M/3583
Gupta, A., 84M/2499
Gupta, K. Das, 84M/2391
Gupta, L. N., 84M/3374, 3375
Gupta, U. Das, 84M/3468
Gürkan, A., 84M/4151
Gurvich, Ye E. G., 84M/0608, 1762
Gust, D. A., 84M/2949, 4383
Güter, J. R., 84M/3832
Gütlich, P., 84M/3767
Guy, B., 84M/3968
Gwilym, R. D., 84M/2621

Haack, U., 84M/3289, 3291-3293, 4152
Haarpaintner, T., 84M/1045
Haas Jr, J. L., 84M/0334, 0336
Haase, C. S., 84M/2250
Hacquebard, P. A., 84M/4553
Haddon, M. J., 84M/2430
Hadidiacos, C. G., 84M/3677
Hadley, D. G., 84M/0991
Haffty, J., 84M/1688, 3903
Hafner, S. S., 84M/0156
Haga, N., 84M/1364
Hagenmuller, P., 84M/1404
Haggerty, S. E., 84M/0324, 0885, 2820, 2821, 3252
Hahn, T., 84M/3695
Haig, D. W., 84M/0944
Hailwood, E. A., 84M/3587
Haimson, M., 84M/3064
Haines, J., 84M/2428
Hajash Jr, A., 84M/3972
Hájek, B., 84M/0056, 0094, 0101, 3778
Hajnal, Z., 84M/1196
Hak, J., 84M/0807, 1896
Halas, S., 84M/2445
Halbach, P., 84M/0292, 2563
Haldorsen, S., 84M/1764
Hålenius, U., 84M/1415, 1849
Hall, A., 84M/2993
Hall, A. J., 84M/1591
Hall, C. M., 84M/3651, 3653
Hall, G. S., 84M/3090
Hall, M. A., 84M/3023
Hall, M. G., 84M/1233
Hall, P. L., 84M/1265
Hall, R., 84M/1952, 2094
Hallam, A., 84M/0918, 3616
Hallbauer, D. K., 84M/0844
Hallberg, J. A., 84M/3386
Hallenstein, C. P., 84M/1434
Halliday, A. N., 84M/0588, 1717, 1769, 3526, 4065
Hallmark, C. T., 84M/0073
Halverson, J. E., 84M/0320
Ham, D., 84M/4555
Hamasaki, J., 84M/0053
Hambley, T., 84M/3855
Hamelin, B., 84M/4101, 4119
Hamet, J., 84M/3658
Hamilton, P. J., 84M/0596
Hamilton, R. A., 84M/1163
Hamilton, T. W., 84M/3043
Hamilton, W., 84M/2589, 3529
Hamilton-Taylor, J., 84M/3937
Hamm, H.-M., 84M/2504
Hammel, J. E., 84M/3756
Hammer, U. T., 84M/0097, 1533
Hampar, M. S., 84M/2725
Hampton, C. M., 84M/0555
Han, F., 84M/2848
Han, T., 84M/3771
Han, X., 84M/0123
Hanada, K., 84M/4243
Hancock, P. L., 84M/1956
Handa, N., 84M/4178
Handa, S., 84M/4548
Hanes, J. A., 84M/3653
Hanic, F., 84M/3830
Hanke, K., 84M/3233
Hannaker, P., 84M/2435
Hanneman, W. W., 84M/0494
Hänni, H. A., 84M/0487, 1646
Hans, S. K., 84M/1135
Hansen, B. T., 84M/0011
Hansen, K., 84M/4102
Hansen, N. B., 84M/2418, 2421
Hanshaw, B. B., 84M/3017
Hanson, G. N., 84M/3461
Hanson, R., 84M/4444
Hao, Y., 84M/3924
Harayama, S., 84M/4388
Harbert III, M. P., 84M/1524
Harder, H., 84M/1486
Hardie, L. A., 84M/0516
Harding, R. R., 84M/2759
Hardwood, G. M., 84M/2835
Hare, P. E., 84M/4170, 4173
Hare, T. M., 84M/2393
Hargreaves, D., 84M/0090
Harley, S. L., 84M/2357, 3511, 3554, 4080
Harlow, G. E., 84M/0732
Harman, H., 84M/0966
Harman, M., 84M/0526
Harmand, C., 84M/0983
Harmon, R. S., 84M/0631, 1702, 1716, 2869, 2956, 3643, 4025
Harnish, D., 84M/4498
Harper, D. A., 84M/1982
Harris, A. L., 84M/0907, 1986
Harris, C., 84M/2060
Harris, D. M., 84M/0580, 2792
Harris, G. A., 84M/3809
Harris, L. B., 84M/1974
Harris, N. B. W., 84M/0986, 1136
Harrison, C. G. A., 84M/3610
Harrison, D. J., 84M/1068, 3918
Harrison, H. R., 84M/3987
Harrison, R., 84M/1265
Harrison, R. K., 84M/0755, 1991
Harrison, T. M., 84M/1226, 1609, 1610, 3623
Harrison, W. E., 84M/0677
Harron, G. A., 84M/2583
Hart, M., 84M/0151
Hart, R., 84M/2866
Hart, S. R., 84M/0574, 0616, 2796, 2797, 2875, 3438, 4100, 4543
Harte, B., 84M/1703
Harter, R. D., 84M/0314
Hartley, K., 84M/3698
Hartling, A., 84M/4466
Hartman, P., 84M/1303
Hartmann, O., 84M/3289
Hartmanova, M., 84M/3830
Harvey, G. R., 84M/3022
Harvey, M. A., 84M/2997, 3517
Hasegawa, A., 84M/0339
Hasegawa, T., 84M/3087
Hashi, K., 84M/1600
Hashimi, N. H., 84M/1333
Hashimoto, A., 84M/2429
Hashimoto, H., 84M/3831
Haskin, L. A., 84M/2806
Hassan, I., 84M/3819
Hassan, M. M., 84M/0603
Hastie, J. W., 84M/0478
Haszeldine, R. S., 84M/3640
Határ, J., 84M/0757
Hathaway, J. C., 84M/1539
Hathout, M. H., 84M/4110
Hattori, K., 84M/2775
Hattori, T., 84M/0107
Haubenreisser, W., 84M/2651
Hauff, P. L., 84M/3237
Haughton, L. F., 84M/1240, 1241
Haukka, M., 84M/2435
Hauser, S., 84M/0653
Hawkesworth, C. J., 84M/1254, 1705, 2813, 2947
Hawkins, J. [W.], 84M/3435
Hawkins Jr, J. W., 84M/2090
Hawthorne, F. C., 84M/1351, 1405, 1406, 2547
Hay, M., 84M/2321
Hay, R. L., 84M/0571, 1819, 2059
Hayakawa, T., 84M/2682
Hayase, K., 84M/0688
Hayashi, T., 84M/1625, 2464
Hayes, J. M., 84M/3044
Hayes, M. H. B., 84M/1265
Haymon, R. M., 84M/2562, 2847
Haynes, L. D., 84M/1513
Hazen, R. M., 84M/0168, 0345, 2541, 2665, 2757, 3984, 4523, 4524, 4528
He, Y.-N., 84M/3316
He, Z., 84M/4268
Head III, J. W., 84M/3083
Hearn Jr, B. C., 84M/4184
Heath, G. R., 84M/1540
Heaton, M. J., 84M/3046
Hebeda, E. H., 84M/0009, 1205
Hébert, R., 84M/2064
Hedley, I., 84M/2095
Heflik, W., 84M/1648
Heger, G., 84M/0205
Heimann, R. B., 84M/2535
Hein, J. R., 84M/2176, 2177
Heinrichs, H., 84M/4152
Heinze, M., 84M/2479
Heinzinger, K., 84M/2648
Hekinian, R., 84M/2064
Helgeson, H. C., 84M/0335, 1283, 2658, 2713, 3979
Helios-Rybicka, E., 84M/1322, 3743
Heller, J., 84M/1739
Heller-Kallai, L., 84M/1313
Hellmann, J. R., 84M/0409, 0412
Helm, D. G., 84M/0924
Helmstaedt, H., 84M/2045, 2273, 4227
Helmy, A. K., 84M/1317
Helvaci, C., 84M/2263
Helz, G. R., 84M/0386
Hem, S. L., 84M/1311, 1312
Heming, R. F., 84M/3387
Hemingway, B. S., 84M/0336
Henden, I., 84M/0237
Henderson, C. M. B., 84M/4356, 4358, 4540, 3180
Henderson, D. M., 84M/2495
Henderson, G., 84M/1914

Henderson, J. B., 84M/2776
Henderson, P., 84M/1560, 1714, 2457, 2803, 2815
Henderson, W., 84M/4614
Henderson Jr, W. A., 84M/2315
Henderson-Sellers, A., 84M/2782
Hendry, G. L., 84M/1707, 2192
Henig, E.-T., 84M/0379
Henley, R. W., 84M/4160
Hennessy, J., 84M/2873
Hennig, G. J., 84M/2345
Henning, R. J., 84M/3589
Henningsen, D., 84M/2210
Henriksen, H., 84M/4485
Henry, D. J., 84M/0357, 2010
Henry, D. L., 84M/1374
Henry, J., 84M/1805
Hentschel, G., 84M/0883, 1174, 3136, 3248
Herbert, H.-J., 84M/3522
Herbillon, A. J., 84M/1305
Herbosch, A., 84M/1684, 1805
Herd, R. K., 84M/0824, 3537, 4217
Heritsch, W. M. H., 84M/3530, 3531
Hermans, G. A. E. M., 84M/2254
Hermoneit, B., 84M/0464
Hermosin, M. C., 84M/1312
Herms, U., 84M/3709
Hernán, F., 84M/2876, 3419
Hernandez-Pacheco, A., 84M/3414, 3415
Heron, C., 84M/2446
Herpers, U., 84M/1816
Herr, W., 84M/1816
Hershey, J. P., 84M/2656
Herve, F., 84M/3555
Hervig, R. L., 84M/2731
Herzberg, C. T., 84M/1607, 2012, 4293
Herzen, R. P. Von, 84M/3580
Herzog, G. F., 84M/3090
Hess, H., 84M/3240
Hesse, K.-F., 84M/1382, 1400
Hetherington, N. B., 84M/2625
Hettiaratchi, T., 84M/3250
Heughebart, J.-C., 84M/0440
Heuser, W. R., 84M/2661
Hextall, J. P., 84M/1812
Hickmott, D., 84M/4484
Hickson, C. J., 84M/4416
Hietanen, A., 84M/4518
Higashi, S., 84M/1279, 4289
Highley, D. E., 84M/2814
Higuchi, S., 84M/2739, 2740
Hildebrand-Mittlefehldt, N., 84M/1978
Hildreth, W., 84M/0588
Hill, J. D., 84M/1011
Hillier, J. A., 84M/3701
Hilton, J. C. D., 84M/4198
Himmelberg, G. R., 84M/2038
Hinga, K. R., 84M/3491
Hinthorne, J. R., 84M/3128
Hipkin, R. G., 84M/2288
Hirano, T., 84M/0126
Hiro, Y., 84M/0410
Hiroi, Y., 84M/1139
Hirowatari, F., 84M/1902, 3893
Hirsinger, V., 84M/1964
Hirst, B., 84M/2002
Hitchen, K., 84M/3341
Hitchman, S. P., 84M/3940
Hitchon, B., 84M/0395, 0396
Hlavay, J., 84M/1532
Ho, M.-S., 84M/3101
Ho, T. T. Y., 84M/0683
Hoare, J. M., 84M/1007
Hobbs, B. E., 84M/1964
Hobbs III, C. H., 84M/0054, 0610
Hoch, M., 84M/4534
Hochleitner, R., 84M/0420, 1923, 3604
Hock, Tan Lai, 84M/1336
Hodder, R. W., 84M/3896
Hodenberg, R. von, 84M/3247
Hodge, L. C., 84M/3239
Hodges, K. V., 84M/4484
Hodgins, L. W., 84M/3724
Hodgson, C. J., 84M/3914
Hodgson, M., 84M/3725
Hoefs, J., 84M/1722, 3292
Hoek, B. van der, 84M/0373
Hoek, S. van der, 84M/1657
Hoering, T. C., 84M/4157, 4170, 4182
Hoernes, S., 84M/2161
Hoffer, E., 84M/3285, 3289
Hoffmann, C., 84M/3127
Hoffmann, C. F., 84M/3056
Höfler, S., 84M/4032
Hofmann, A. W., 84M/2911, 2951, 4095
Hofmann, W., 84M/0138
Hofmeister, W., 84M/0184, 1354
Hogan, L., 84M/2866
Hogg, A. G., 84M/1036
Höhndorf, A., 84M/1672
Hoholick, J. D., 84M/4469
Holder, P., 84M/1289
Holdstock, M. P., 84M/1446
Holdsworth, R. E., 84M/3305
Hole, M. J., 84M/4123
Holland, J. G., 84M/0629
Holland, T. J. B., 84M/0458
Holliday, D. W., 84M/1991
Hollis, J. D., 84M/3385
Hollister, L. S., 84M/2243
Holloway, J. R., 84M/2528, 4016
Holm, N. G., 84M/0837, 2971
Holm, P. M., 84M/0043
Holmes, I., 84M/1681
Holmes, K. H., 84M/2578
Holmes, R., 84M/3942
Holmes, R. D., 84M/4383
Holomany, M., 84M/2379
Holser, W. T., 84M/2985
Holt, R. W., 84M/0024, 1137
Hölting, B., 84M/1786
Holtzclaw, K. M., 84M/3708
Honda, M., 84M/0752, 3114
Hong, Z., 84M/1795
Honjo, S., 84M/2986, 2987
Honma, H., 84M/1901, 2682, 3687
Honnorez, J., 84M/2163, 2179, 2180, 3463, 3580
Hood, W. C., 84M/1433
Hooker, P. J., 84M/0596, 2867
Hooper, P. R., 84M/4399
Hoover, D. B., 84M/0504
Hopgood, A. M., 84M/1769
Hopgood, D. N., 84M/1430
Hoppan, J., 84M/0301
Hoppe, A., 84M/3127
Hopple, J., 84M/3062
Hopson, C. A., 84M/2108, 2109
Hori, H., 84M/1932, 4585
Hori, S., 84M/4556
Horibe, Y., 84M/1785
Horn, E. E., 84M/3280
Horndahl, A.-K., 84M/1680
Horne, R. R., 84M/1438
Hornemann, U., 84M/1578, 3960
Horodyski, R. J., 84M/2226
Horsfield, B., 84M/0683
Horsky, S. J., 84M/4185
Horton, D. J., 84M/2601, 2602
Horton, W. S., 84M/0478
Horváth, I., 84M/0099
Horváth, V., 84M/1244
Horvath, Z. A., 84M/2673
Horwitz, R. C., 84M/3551
Horwood, G. R., 84M/0344
Hoshino, M., 84M/3002, 4499
Hoshino, Y., 84M/1621
Hosoya, S., 84M/3965
Hossack, J. R., 84M/1946, 1949
Hossner, L. R., 84M/1335
Hosterman, J. W., 84M/3769
Hotta, M., 84M/0397, 0398
Hou, Q., 84M/2598
Hou, W., 84M/3097
Houghton, B. F., 84M/1001, 1037
Houghton, N. J., 84M/1515
House, W. A., 84M/0432
Houseman, G. A., 84M/2333, 4379
Housley, R. M., 84M/3106
Hove, M. Van, 84M/3747
Hover Granath, V. C., 84M/1115
Howard, S. A., 84M/2377
Howard Jr, K. L., 84M/1165
Howe, M. P. A., 84M/4309
Howie, R. A., 84M/4260
Hoyer, M. C., 84M/0055
Hoyle, J., 84M/4162
Hsü, K. J., 84M/0644
Hu, G., 84M/3118
Hu, H., 84M/2575
Hu, J.-R., 84M/2505
Hu, S., 84M/2032
Hua, G., 84M/2865
Huang, C., 84M/4165
Huang, C. H., 84M/4396
Huang, D., 84M/1796, 4472
Huang, G., 84M/3591
Huang, H., 84M/2031
Huang, J. J., 84M/0193
Huang, L., 84M/1746
Huang, P. M., 84M/0097, 1288, 1533, 3722, 4171
Huang, S., 84M/3591
Huang, T. C., 84M/2373, 2381
Huang, Y., 84M/2575
Hubbard, C. R., 84M/2374, 2376, 2379, 2383, 2387, 2449
Hubbard, D., 84M/1200
Hubbard, F. H., 84M/2671
Hubberten, H.-W., 84M/2172, 2173, 2178-2180, 2188, 2195, 2198
Huber, P., 84M/2304-2309
Huber, R. D., 84M/2602
Huber, S., 84M/2304-2309
Hubert, C., 84M/4125
Huchon, P., 84M/4616
Huckerby, J. A., 84M/2596
Hudleston, P. J., 84M/1977
Hudson, A., 84M/3030
Hudson, G. R. T., 84M/1501
Hudson, T., 84M/1006
Huertas, F., 84M/2968
Huertas, M. Ortega, 84M/3164
Huff, W. D., 84M/1329
Huffman, K., 84M/2002
Hughes, D. W., 84M/1169
Hughes, J. M., 84M/0878, 1580, 3137, 3202
Hügi, T., 84M/0742, 1457
Huiatt, J. S., 84M/0232
Huijsmans, J. P. P., 84M/0561
Hul, H. J. van den, 84M/4111
Humbert, L., 84M/0383
Humphries, D. J., 84M/0461
Humphris, S. E., 84M/2811, 2892, 2893, 4432
Huneke, J. C., 84M/3098
Hunt, D. K., 84M/2005
Hunt, J., 84M/0720
Hunt, W., 84M/2327
Hunter, D. R., 84M/2343
Hunter, K. A., 84M/0659
Hunter, R. H., 84M/3069, 4233, 4397
Huntsman, S. A., 84M/3022
Hunziker, J. C., 84M/1848, 3270, 3284
Huppert, H. E., 84M/2667, 4350
Hurd, D. C., 84M/1562
Hurford, A. J., 84M/3624
Hurwit, K. N., 84M/0498, 0499
Huspeni, J. R., 84M/3862
Hussain, A., 84M/2288
Hussein, I. M., 84M/1046
Hussein, S. A., 84M/1088
Hut, G., 84M/3690
Hutchison, R., 84M/1261
Hutton, J. T., 84M/3489
Hutton, L. J., 84M/3382
Hyde, B. G., 84M/1394, 2503
Hydes, D. J., 84M/0645
Hyndman, D. W., 84M/2046
Hyndman, R. D., 84M/1196
Hynes, A., 84M/2042

Iacconi, P., 84M/0419
Iasi, R., 84M/0131
Ibarra, L. M., 84M/3705

Ibe, A. C., 84M/0704
Ichikuni, M., 84M/2705
Iglesia, A. La, 84M/2407, 2702, 2704, 2741, 2756, 3201
Ignatovski, P., 84M/0934
Iijima, A., 84M/2221
Iijima, K., 84M/4037
Iishi, K., 84M/0163
Ikawa, H., 84M/2734, 2735, 2737, 2738
Ike, E. C., 84M/0987
Ikeya, M., 84M/1214
Ikin, N. P., 84M/0631
Ilavský, J., 84M/0527, 0971
Ilgen, G., 84M/2433
Ilich, M., 84M/2139
Illich, H. A., 84M/0695
Ilton, E. S., 84M/2640
Ilyukhin, V. V., 84M/0199, 1386, 1397, 2539, 3845
Imahori, Y., 84M/4198
Imaizumi, M., 84M/2270
Imaoka, T., 84M/4391
Imbrie, J., 84M/3023
Imeokparia, E. G., 84M/0572, 1726
Imhoff, C. L., 84M/2785
Imreh, L., 84M/1998, 1999
Imsland, P., 84M/2146
Inamdar, D. D., 84M/3309
Inczedy, J., 84M/1532
Ineson, P. R., 84M/4367, 4407, 4473
Ingles, J., 84M/1969
Ingram, M., 84M/4135
Inoue, A., 84M/1296, 1630, 3761
Inoue, K., 84M/3430, 3722
Inskeep, W. P., 84M/1285
Iocheva, E. I., 84M/1185
Ioppolo, S., 84M/2883
Ireland, T. R., 84M/2351
Irouschek, A., 84M/0774
Irvine, T. N., 84M/2665, 3395, 3982, 4351, 4352, 4258
Isaac, K. P., 84M/1070, 1124, 1989
Isaacs, A. M., 84M/0891
Isaacs, M. C., 84M/3067
Isaacson, P. J., 84M/0112
Isacks, B. L., 84M/3326
Isayev, V. S., 84M/3363
Isherwood, R., 84M/0061
Ishida, K., 84M/1368, 1847
Ishihara, S., 84M/0577
Ishikawa, M., 84M/2705
Ishizaka, K., 84M/0576, 2902
Ishizawa, Y., 84M/1392
Ishizuka, H., 84M/2270, 2904, 3144
Ishizuka, T., 84M/1337
Iskhakova, L. D., 84M/3845
Ismail, I. A. H., 84M/0902
Isotani, S., 84M/2281
Issar, A., 84M/1776
Isuk, E. E., 84M/0355
Itaya, T., 84M/0404, 1891
Ito, E., 84M/0622, 1055, 2792, 4014, 4095
Ito, J., 84M/3801
Ito, M., 84M/1339
Ito, Y., 84M/4584, 4585
Ivaldi, G., 84M/0154, 1360, 3787
Ivan, P., 84M/0795
Ivaniv, I. V., 84M/0762
Ivanov, A. G., 84M/1058
Ivanov, B. V., 84M/4377
Ivanov, I., 84M/1725
Ivanov, I. T., 84M/1687
Ivanov, M. V., 84M/0687
Ivanov, O. K., 84M/4286
Ivanov, V. S., 84M/4239
Ivanova, O. A., 84M/4212
Ivanovich, M., 84M/2345
Ivarson, K. C., 84M/0438
Ivensen, G. V., 84M/0111
Ivensen, V. Yu., 84M/0111
Ivoilova, E. Kh., 84M/2521
Iwai, S., 84M/0175
Iwasaki, T., 84M/1278
Iwase, Y., 84M/0451
Iwasińska, I., 84M/0106
Ixer, R. A., 84M/0853, 1681, 4367
Iyer, G. V. Anantha, 84M/2346, 3883, 3998
Iyer, S. S., 84M/3006
Izawa, M., 84M/4214
Izutsu, K., 84M/4391

Jackson, D., 84M/0650
Jackson, H. R., 84M/1162
Jackson, J., 84M/2334, 3303
Jackson, P. M., 84M/0455
Jacobs, D. C., 84M/4229
Jacobs, J. J., 84M/0075
Jacobsen, C. E., 84M/4519
Jacobsen, S. B., 84M/4194
Jacobsen, V. W., 84M/2255
Jacobus, N. C., 84M/2397
Jacquin, C., 84M/0383
Jäger, E., 84M/1848
Jagielski, J., 84M/1234
Jahn, B.-M., 84M/0012, 2959, 2999, 4105, 4153
Jahnke, R. A., 84M/0612, 2991, 3020
Jakhu, M. R., 84M/1526
Jakobsson, S., 84M/2528
James, P. R., 84M/2357, 3554
Jameson, G. B., 84M/3832
Jamet, P., 84M/1458
Jamieson, R. A., 84M/2130
Jamil, A. K., 84M/1510
Janardhan, A. S., 84M/3379
Janner, A., 84M/1348-1350
Jansen, E., 84M/3310
Jansen, J. B. H., 84M/2254
Jansen, Ø. J., 84M/1980
Jansheski, W. C., 84M/2415
Janssen, T., 84M/1348-1350
Janssens, G. K., 84M/1752
Jaques, A. L., 84M/0578, 2907
Jaramillo, L., 84M/3917
Jarkovský, J., 84M/0526, 0599
Jarosewich, E., 84M/0728, 3094
Jarrar, G., 84M/0023
Jasinski, A. W., 84M/1436
Jassim, R. Z., 84M/0263, 0807, 2831
Jaupart, C., 84M/4550
Javoy, M., 84M/4068
Jawad Ali, A., 84M/1091
Jayaram, K. M. V., 84M/0575
Jayasinghe, N. R., 84M/2358
Jayawardena, D. E. de S., 84M/0265
Jeanloz, R., 84M/2541
Jeannot, F., 84M/1576
Jedwab, J., 84M/1484
Jehanno, C., 84M/2150
Jen, L. S., 84M/0787
Jenatton, L., 84M/3957
Jenkins, D. M., 84M/1616, 2726
Jenkins, J., 84M/0298
Jenkins, J. E., 84M/1571
Jenkins, R., 84M/2372
Jenkins, R. J. F., 84M/1096
Jenkins, W. J., 84M/2629, 3438
Jennett, J. C., 84M/1514
Jennings, B. R., 84M/0061
Jennings, L. D., 84M/3788
Jeppsson, L., 84M/0060
Jepsen, H. F., 84M/2017
Jessop, A. M., 84M/4552
Jesus Tavares, M. de, 84M/3066
Jezek, P. A., 84M/2954
Ji, K., 84M/3872
Jian, H., 84M/3890
Jiang, C., 84M/3886
Jiang, H., 84M/1796
Jiang, Q., 84M/4165
Jiang, X., 84M/2850
Jiang, Z., 84M/1747
Jin, Z., 84M/1871
Jin, Z.-S., 84M/3782
Jobbins, E. A., 84M/2759
Jobstraibizer, P. G., 84M/1851
Jochum, K. P., 84M/4095
Jödicke, H., 84M/3274
Johan, Z., 84M/1918, 3228, 3230
Johannes, W., 84M/1553, 2247
Johansson, A., 84M/4083
Johns, R. B., 84M/3057, 4179
Johns, W. D., 84M/3760
Johnsen, O., 84M/1835, 2515
Johnson, C. A., 84M/3125
Johnson, C. C., 84M/4063
Johnson, G. K., 84M/0480, 2647
Johnson, J. E., 84M/3605
Johnson, K. S., 84M/4026
Johnson, L., 84M/1052
Johnson, L. R., 84M/1857
Johnson, M. R. W., 84M/0909, 0910
Johnson, S. S., 84M/1164, 1658
Johnston, A. D., 84M/4415
Johnston, J. H., 84M/2693, 2978
Johnston, M. R., 84M/2118
Johnston, T., 84M/4426
Jon, M., 84M/1576
Jonasson, R. G., 84M/2439
Jones, A. P., 84M/1679, 1841, 3203
Jones, B. F., 84M/1331, 3723
Jones, D. K., 84M/1904
Jones, E. A., 84M/2419
Jones, E. M., 84M/1482
Jones, G. A., 84M/0068, 4064
Jones, G. C., 84M/3253
Jones, G. V., 84M/1443
Jones, I. F., 84M/1196
Jones, J. H., 84M/2661, 3112
Jones, K. C., 84M/1525
Jones, L. M., 84M/3862
Jones, M. E., 84M/4449
Jones, N. W., 84M/0014, 0619, 1708
Jones, P. C., 84M/1872, 4424
Jones, R. A., 84M/4380
Jones, R. W., 84M/2324, 4610
Jones, T. R., 84M/1266
Jones, W., 84M/1264
Jones IV, D. R., 84M/2415
Jong, B. H. W. S. de, 84M/2497
Jordan, H., 84M/3297
Jordan, T. E., 84M/3326
Jordanov, J. A., 84M/0439, 1725
Jørgensen, N. O., 84M/1067
Jørgensen, S. S., 84M/2432
Joron, J.-L., 84M/0552, 2158, 2193
Joswig, W., 84M/3849
Jouany, C., 84M/3708
Joyce P. J., 84M/2600
Judge, A. S., 84M/4552
Juhász, A. Z., 84M/0433
Juist, J., 84M/3605
Julg, A., 84M/3812
Julg, O., 84M/3812
Julian, B. R., 84M/3323
Julietti, R. J., 84M/0070
Jung, D., 84M/3196
Junge, W., 84M/1888, 2724
Jurewicz, S. R., 84M/2747
Jurinak, J. J., 84M/1287
Justin Visentin, E., 84M/1027
Juteau, M., 84M/3628
Juteau, T., 84M/0351, 1047, 2105

Kabesh, M. L., 84M/2886
Kabir, A., 84M/4395
Kacker, R. N., 84M/2115
Kaeding, L., 84M/1486
Kafri, U., 84M/2214, 3013
Kagami, H., 84M/1337, 3687
Kagami, J., 84M/4434
Kagi, R. I., 84M/0699, 0700
Kai, F. I., 84M/4581
Kaiser, H., 84M/1175, 2300
Kaiteris, P., 84M/0068
Kakitani, S., 84M/1340, 2487
Kakuto, Y., 84M/1324
Kalajdžiev, S., 84M/1464
Kalinichenko, A. M., 84M/0786
Kalinichev, A. G., 84M/1549
Kalinin, A. S., 84M/0225
Kalinin, D. V., 84M/0467, 0471, 4049
Kalló, D., 84M/1629

Kalogeropoulos, S. I., 84M/1694, 1893, 3163
Kalsbeek, F., 84M/0906, 1767, 2017
Kalyuzhnyi, V. A., 84M/1830
Kamarchik, P., 84M/2386
Kamata, H., 84M/3317
Kamei, G., 84M/4225
Kamenický, L., 84M/0565, 0966
Kamineni, D. C., 84M/0322, 1218
Kaminskiy, F. V., 84M/4440
Kamiya, K., 84M/4388
Kämpf, A. R., 84M/3236
Kampf, N., 84M/0146, 1294
Kampunzu, A. B., 84M/0988, 2057, 2058
Kanaoka, S., 84M/2461, 2472
Kanasewich, E. R., 84M/1196
Kanat, L. H., 84M/3142
Kanaya, H., 84M/0997
Kanazawa, Y., 84M/0057
Kančev, K. St., 84M/0834
Kane, R. E., 84M/0498, 0499, 4041
Kaneoka, I., 84M/2858, 3096, 3440
Kang, W.-H., 84M/4550
Kanika, M., 84M/0988
Kano, T., 84M/3002
Kao, C.-C., 84M/3835
Kaptan, E., 84M/1183
Kapustin, Yu. L., 84M/0551, 0817, 1111
Karabtosov, A. A., 84M/0407
Karamata, S., 84M/2088, 2091
Karathanasis, A. D., 84M/0094, 0101, 3778
Karekamp, J. C., 84M/3952
Karig, D. E., 84M/4434
Kärkkäinen, N., 84M/4055
Karlin, R., 84M/3496
Karner, G. D., 84M/3301
Karpenko, S. F., 84M/0512
Karpoff, A.-M., 84M/2163
Karpov, I. K., 84M/2635
Karpukhin, V. Ye E ., 84M/0990
Karrow, P. F., 84M/0660
Karup-Moller, S., 84M/1868
Karwowski, L., 84M/3357, 4479
Kase, K., 84M/3906, 3907
Kashaev, A. A., 84M/1386
Kashfi, M. S., 84M/1995
Kashima, K., 84M/1614
Kasig, W., 84M/3264
Kašpar, P., 84M/0856
Kassa, G., 84M/0330
Kassim, J. K., 84M/0136, 3702
Kasting, J. F., 84M/2779
Kastner, M., 84M/2847
Kas'yananko, E. V., 84M/4273
Katada, M., 84M/0997
Kathrein, H., 84M/0519
Kátlovský, V., 84M/0567
Kato, A., 84M/0888, 4255, 4288, 4586, 4588, 4603
Kato, C., 84M/2466
Kato, E., 84M/2461
Kato, M., 84M/3100
Kato, S., 84M/2461
Kato, T., 84M/0173
Katterfeld, G. N., 84M/3076
Katz, A., 84M/1089
Katz, B. J., 84M/0679
Kauffman, D. A., 84M/1563
Kaufman, A., 84M/2214
Kaul, I. K., 84M/3574, 3575
Kawachi, Y., 84M/3553, 4501
Kawahara, A., 84M/3817
Kawamura, T., 84M/4037
Kawasaki, M., 84M/0998, 0999
Kawasaki, T., 84M/2716
Kay, A., 84M/3897
Kay, R. L. F., 84M/3009
Kay, R. W., 84M/3367
Kayasth, S. R., 84M/0724
Kazachenko, V. T., 84M/4259
Kazak, A. P., 84M/3540
Kazak, V. G., 84M/0531
Kazmin, V., 84M/2882
Kean, B. F., 84M/2358
Kearey, P., 84M/1158
Kearsley, A. T., 84M/0064
Keck, E., 84M/0876
Kecskés, Á., 84M/0511
Keeling, C. D., 84M/3020
Keeney-Kennicutt, W. L., 84M/1536
Keil, K., 84M/0732, 1813, 2159, 3092, 4193
Keir, R. S., 84M/0431, 2628
Keith, D. W., 84M/3395
Keith, T. E. C., 84M/0523
Kelepertsis, A. E., 84M/0597
Keller, B. M., 84M/0020
Keller, P. C., 84M/0489, 0491, 0507, 3240, 3249, 4040
Keller, W. D., 84M/3721, 3762
Keller-Besrest, F., 84M/0197
Kellerman, S. P., 84M/2428
Kelly, D. P., 84M/0847
Kelly, P. R., 84M/1924
Kelly, T., 84M/0960
Kelly, W. C., 84M/2585
Kempton, P. D., 84M/3463, 3580
Kenah, C., 84M/2243
Kendall, C., 84M/3062
Kendall, D. S., 84M/2390
Kendrick, K., 84M/0075
Kennan, P. S., 84M/1683
Kennedy, B. M., 84M/0365
Kennedy, P. C., 84M/0719, 0720
Kennett, J. P., 84M/2962
Kennicutt II, M. C., 84M/1536
Kent, J. D., 84M/0414
Kerans, C., 84M/1008
Keren, R., 84M/0313
Kern, H., 84M/1598, 4002
Kerndorff, H., 84M/3050
Kerneizon, M. Le Guen de, 84M/0594
Kerrich, R., 84M/1696, 2855, 2994
Kerridge, J. F., 84M/1815, 2847, 4206
Kerswill, J. A., 84M/2942
Kesler, S. E., 84M/2585, 3862
Key, C. H., 84M/2020, 3349
Khan, M. A., 84M/2077, 3038
Kharaka, Y. K., 84M/0390
Kharbouch, F., 84M/0937
Kharitonova, R. Sh., 84M/4280
Kharitonova, V. Ya., 84M/0750
Khar'kiv, A. D., 84M/2348, 3364, 3959
Khavari-Khorasani, G., 84M/3227
Khayretdinov, I. A., 84M/2669, 3680
Khazov, R. A., 84M/3879
Kheyskanen, K. I., 84M/2862
Khisina, N. R., 84M/4240
Khlebnikova, A. A., 84M/2681
Khmelevsky, V. A., 84M/1830
Khodarev, V. P., 84M/0287
Kholina, E. N., 84M/3962
Kholodkevich, I. V., 84M/2182
Khomayakov, A. P., 84M/4276
Khomenko, V. M., 84M/0785
Khomyakov, A. P., 84M/0886, 0894, 1925, 1933, 1938, 1939, 1942, 4247
Khoshaba, B. N., 84M/1091
Khosla, V., 84M/1134
Khosrawan-Sazedj, F., 84M/3853
Khoury, H. N., 84M/2468, 3723
Kieffer, S. W., 84M/3410
Kieft, C., 84M/0861
Kienast, J.-R., 84M/3153
Kiesl, W., 84M/2882, 3158
Kihien Collado, A., 84M/1227
Kikhoidov, G. G., 84M/0459
Kikkawa, S., 84M/1600
Kikkert, J. N., 84M/2401, 3675
Kikuchi, M., 84M/1579
Kikuchi, R., 84M/3997
Kikuchi, T., 84M/1586
Kilinc, A., 84M/1558
Kilkelly, M. K., 84M/1524
Killingley, J. S., 84M/2961, 3027
Kim, H. S., 84M/1618
Kim, K. H., 84M/2991
Kimata, M., 84M/0159, 1363
Kimbara, K., 84M/2491, 4241
Kimberley, M. M., 84M/2581
Kimpe, C. R. De, 84M/1345, 3704
Kimura, M., 84M/4037
Kinealy, K., 84M/3859
King, R. J., 84M/1228, 3594
Kingery, W. D., 84M/1581
Kinghorn, R. R. F., 84M/0704, 1792
Kingsley, R., 84M/4426
Kingston, G. A., 84M/2074
Kinnaird, J. A., 84M/4252
Kinney, J. J., 84M/0275
Kinniburgh, D. G., 84M/0067
Kinny, P. D., 84M/2351
Kinoshita, H., 84M/3463, 3580
Kipphut, G. W., 84M/2984
Kirby, G. A., 84M/1991, 2121, 3451
Kirchhoff, P. M., 84M/2389
Kirfel, A., 84M/2504, 2543
Kirikilitsa, S. I., 84M/1852
Kirkbright, G. F., 84M/2434, 2436
Kirkpatrick, R. J., 84M/2495, 2649
Kirschenbaum, H., 84M/2411
Kirton, S. R., 84M/3342
Kishima, N., 84M/3953
Kissling, R. D., 84M/4233
Kistler, R. W., 84M/0547, 4341, 4401
Kitagawa, R., 84M/1340, 2487
Kitajima, K., 84M/2736
Kitamura, M., 84M/0162, 0741, 0748, 3965, 4211
Kitamura, T., 84M/4221
Kitchen, D., 84M/3307
Kittrick, J. A., 84M/3710, 3731
Kiyosu, Y., 84M/2830, 3015
Křapyta, Z., 84M/0318, 1314
Kleck, W. D., 84M/4399
Kleiman, J., 84M/2535
Klein, C., 84M/0465, 1613
Klein, H., 84M/3528
Klein, J., 84M/3630
Klemens, P. G., 84M/4541
Klemm, D. D., 84M/1673, 1811
Klemm, W., 84M/0518
Kleppa, O. J., 84M/0449, 2646
Klinkhammer, G., 84M/3030
Klinowski, J., 84M/1264
Kloepping, R., 84M/3740
Klopotov, V. I., 84M/0826, 3581
Klusman, R. W., 84M/0316
Knab, G. G., 84M/3830
Knapp, G. B., 84M/3032
Knauer, G. A., 84M/3029, 4136
Knauth, L. P., 84M/3064
Knight, J. D., 84M/4207
Knipe, R. J., 84M/0803
Knipper, A. L., 84M/2104
Knorring, O. von, 84M/4254
Knotek, M., 84M/0563
Knoth, J., 84M/1888
Knowles, C. R., 84M/4399
Knox, R. W. O'B., 84M/0961
Knudsen, H. P., 84M/2329
Knutson, J., 84M/0544
Kobyashev, Yu. S., 84M/1942
Koch, E., 84M/3503
Kochemasov, G. G., 84M/0540, 4188
Kochemasova, Ye E . A., 84M/0540
Kochhar, N., 84M/3376, 4386
Kodaira, K., 84M/0451
Kodama, H., 84M/0145, 3704
Kodama, N., 84M/1370
Koestler, R., 84M/2320
Koga, S., 84M/3065
Kogarko, L. N., 84M/1612, 2878, 2891, 3634, 4012
Koide, M., 84M/3936
Koiso, M., 84M/0125
Koivula, J. I., 84M/0489, 4043
Koizumi, M., 84M/1600, 2471
Kokelaar, B. P., 84M/2052
Koller, F., 84M/3532, 4476
Kolmer, H. W., 84M/0721
Kolobov, V. Yu., 84M/1829

Kolodny, Y., 84M/2839, 2840
Komarneni, S., 84M/1541, 1542, 2606, 3932
Komatsu, M., 84M/1366
Komiyama, N., 84M/2471
Konert, G., 84M/2262, 3310
Kononova, V. A., 84M/3634
Konovalenko, S. I., 84M/0843
Koo, J. C. M., 84M/1256
Koopmans, H. J. A., 84M/1387
Kooten, G. K. Van, 84M/0592
Koppelman, M. H., 84M/1315
Koppi, A. J., 84M/2522
Koptil', V. I., 84M/2791
Korenaga, T., 84M/2416
Kornacki, A. S., 84M/3105
Kornilova, V. N., 84M/0981
Kornprobst, J., 84M/4317
Korobitsyna, V. N., 84M/0111
Korzun, E. V., 84M/2571
Koshimizu, H., 84M/1619, 2739, 2740
Koshimizu, S., 84M/2903
Koski, R. A., 84M/0293
Kosovinc, I., 84M/0399
Kostal, G., 84M/0074
Kostov, I., 84M/0854
Kostyuk, V. P., 84M/0953, 0980
Kosukhina, I. G., 84M/0790
Kosyakova, N. A., 84M/3329
Kotel'nikov, A. R., 84M/4492
Kothavala, R. Z., 84M/0485
Kotova, N. P., 84M/1548
Kotvitsky, L. F., 84M/0978
Kouchi, A., 84M/1614, 3331, 3965
Koul, S. L., 84M/0013
Kounov, A. J., 84M/1110
Kouvo, O., 84M/1769
Kovac, J., 84M/4180
Kovachev, G., 84M/0692
Kovalenko, V. I., 84M/0995, 4073, 4079, 4376
Kovalenko, V. N., 84M/0782
Kovalenko, V. S., 84M/3847
Koval'sky, V. V., 84M/0981
Kovyazin, S. V., 84M/0469
Kowalski, W. M., 84M/1109, 3224
Kownacka, L., 84M/0329
Koyama, E., 84M/1932, 3839
Kozák, J., 84M/0301, 0811
Kozlonski, A., 84M/4242
Kozlov, V. D., 84M/0565
Kozlov, Ye E . D., 84M/3993
Kozlov, Ye E . N., 84M/4280
Kraevskaya, M. K., 84M/0306
Kraevsky, B. G., 84M/0306
Kraft, P., 84M/3007
Krajiček, J., 84M/1290
Kraker, G. P., 84M/0003
Král', J., 84M/0018, 0530, 0966
Kralik, M., 84M/3647
Kramers, J. D., 84M/1659
Krashes, L. S., 84M/0483
Krasil'nikova, I. G., 84M/0531
Krasil'nikova, N. A., 84M/0307
Krasil'shchikova, O. A., 84M/0533
Krasner, S., 84M/0436
Krasnikov, A. M., 84M/0286
Krasnobaev, A. A., 84M/0020
Krasnozhina, Z. V., 84M/0533
Krašteva, M., 84M/1417
Kraus, I., 84M/0118, 0119
Krause, W., 84M/3247
Kravtsov, E. D., 84M/0864
Kreig, H., 84M/0379
Kreiter, I. V., 84M/0287
Kresten, P., 84M/0482, 1828
Kretz, R., 84M/0780, 0787
Kretzschmar, M., 84M/2778
Kreulen, R., 84M/2819
Kreuser, T., 84M/3054
Kriausakul, N., 84M/0689
Krigman, L. D., 84M/1612, 4012
Krikorian, O. H., 84M/0340
Krill, A. G., 84M/0007, 1203
Krinsley, D. H., 84M/0064, 2480
Krishna Rao, B., 84M/3883
Krishna Rao, J. S. R., 84M/0528
Krishna Rao, N., 84M/0264, 0835, 1469, 1470
Krishna Sinha, A., 84M/2918
Krishnan, M. S., 84M/0080
Krishnaswami, S., 84M/0083, 1759, 3024, 3063
Kristiansen, J., 84M/1168
Kritsotakis, K., 84M/2973
Kriven, W. M., 84M/4009
Krivoshlyk, I. N., 84M/0952
Krivovichev, V. G., 84M/2995
Krochuk, V. M., 84M/1846
Krogh, T. E., 84M/0042
Krokowski, J., 84M/3312
Krom, M. D., 84M/0069
Kronberg, B. I., 84M/3765
Kröner, A., 84M/1213, 2970
Kroon, J., 84M/1353
Kropáček, V., 84M/0405, 1166
Krosch, N. J., 84M/2763
Krouse, H. R., 84M/0663, 2775, 2832
Krumbein, W. E., 84M/2203, 2778
Krupp, R., 84M/3829
Kruse, T. H., 84M/3090
Krylova, L. Ya., 84M/2995
Kubach, I., 84M/2452
Kubala, M., 84M/1991
Kubicki, S., 84M/4477
Kubo, K., 84M/3380
Kucha, H., 84M/0256, 3191, 3846, 4237, 4262
Kucharski, J., 84M/1626
Kudo, A. M., 84M/2159
Kudoh, Y., 84M/3801, 3802
Kudryavtseva, G. P., 84M/1873, 3365, 4535
Kuhlmann, H., 84M/4044
Kuhnhenn, G. L., 84M/3673
Kulakova, I. I., 84M/2679, 3966
Kulaksiz, S., 84M/3539
Kullberg, M. C., 84M/1958
Kulumbegashvili, V. A., 84M/0600
Kumar, G. R. Ravindra, 84M/4496
Kumar, S., 84M/3617
Kumazawa, M., 84M/0339, 3100
Kunugiza, K., 84M/1141
Kuo, L.-C., 84M/2649
Kupčík, V., 84M/3233, 3840
Kupčo, G., 84M/0527
Küppers, H., 84M/1400
Kurahashi, M., 84M/3015
Kuranova, V. N., 84M/3200
Kurasawa, H., 84M/2905, 4401
Kurchavov, A. M., 84M/1024
Kurdyukov, A. A., 84M/3363
Kurdyukov, S. A., 84M/3363
Kurdyukov, Ye[E]. B., 84M/4093
Kurdziel, M., 84M/4479
Kurilenko, N. M., 84M/0270
Kurilo, M. V., 84M/2571
Kurmakaeva, F. A., 84M/1916
Kurnosov, V. B., 84M/2152, 2164, 2182
Kuroda, K., 84M/2466
Kurokawa, H., 84M/0410
Kurova, T. A., 84M/1925, 1939
Kurz, M. D., 84M/2913, 3438
Kurzwell, H., 84M/3760
Kusakabe, H., 84M/2754, 4030
Kushiro, I., 84M/0354, 2636, 2666, 2718, 4017, 4018
Kuss, E., 84M/1170
Kutty, T. R. N., 84M/3998
Kutyyev, F. S., 84M/4377
Kuwano, N., 84M/4214, 4579, 4582, 4583
Kuz'min, É. A., 84M/2512
Kuz'mina, O. V., 84M/0855, 0859
Kuznetsov, A. D., 84M/2861
Kuznetsov, G. N., 84M/2728
Kuznetsov, V. V., 84M/0287, 0515
Kuznetsova, I. K., 84M/4222
Kvaček, M., 84M/1896
Kvande, H., 84M/0443, 0444
Kvasnitsa, V. N., 84M/0211
Kvenvolden, K. A., 84M/0705, 3101
Kwak, J. C. T., 84M/3706
Kwak, T. A. P., 84M/3509
Kyle, J. R., 84M/2557
Kyte, F. T., 84M/3115

Labernardière, H,, 84M/4228
Labotka, T. C., 84M/1115, 3156
Labovitz, M. L., 84M/0669
Labrecque, J. J., 84M/0711
Labuznyi, V. F., 84M/1852
Lacassin, R., 84M/1959
Lacmann, R., 84M/0381
Lacout, J.-L., 84M/2609
la Cruz, B. de, 84M/2586
Łączka, M., 84M/1626
Laeter, J. R. de, 84M/0031, 0723, 2035
Laffite, M., 84M/1895, 2828
Laforêt, C., 84M/1895, 3596
Lafreniere, L. B., 84M/0145
Lagaly, G., 84M/1631
Lagios, E., 84M/4365
Laguerie, C., 84M/2609
Laguna-Morales, J., 84M/2953
Lahiri, A., 84M/2218
Lahodny-Šare, O., 84M/3721
Lahti, V., 84M/2002
Lahusen, G. L., 84M/3916
La Iglesia, A., 84M/2407, 2702, 2704, 2741, 2756, 3201
Lai Hock, Tan, 84M/1336
Lakshtanov, L. Z., 84M/1788
Lal, N., 84M/1201
Lal, R. K., 84M/0769
Lalonde, J.-P., 84M/4145
Lalou, C., 84M/2169
Lamb, R. C., 84M/0627
Lamb, W., 84M/3559
Lambert, B., 84M/4277
Lambert, D. D., 84M/2008
Lambert, J. L. M., 84M/0858, 4364
Lambert, R. St J., 84M/0629
Lamolda, M. A., 84M/3645
Lancelot, J. R., 84M/0016, 0022, 0514, 4109
Land, L. S., 84M/2988
Landa, E. R., 84M/1534
Lander, G. H., 84M/1407
Landgraf, K.-F., 84M/0113, 3503
Landis, C. A., 84M/4501
Landis, G. P., 84M/0548, 2954
Lane, L. S., 84M/4510
Langbein, R., 84M/3503
Lange, I. M., 84M/1480
Langella, A., 84M/1864
Langenstrassen, F., 84M/3257, 3258
Langer,[K. E. O. E.] 84M/0463, 2683, 2722
Langford, C. H., 84M/3050
Langford, J. I., 84M/1265
Langmuir, C. H., 84M/3461
Lanphere, M. A., 84M/0003, 2037, 3437
la Nuez, J. de, 84M/3415
la Peña, J. A. de, 84M/0863, 1074, 2614
Lapides, I. L., 84M/3149
Lapierre, H., 84M/2071, 2093
Lapin, A. V., 84M/3959
Lapointe, P. L., 84M/1197
Laputina, I. P., 84M/0782, 0892
Lardeaux, J.-M., 84M/3153
Lareida, S., 84M/2312
Larger, D., 84M/1672
Larimer, J. W., 84M/3117
Larsen, A. O., 84M/0773
Larsen, J. W., 84M/4180
Larsen, L. M., 84M/1202
Larter, R. C. L., 84M/1453
Lasaga, A. C., 84M/0332, 2639, 2659, 4062
Lashkevich, L. I., 84M/2635
Lashmanov, V. I., 84M/1830
Lasmanis, R., 84M/0839
Last, B. J., 84M/3424
Last, W. M., 84M/4467
Lastovickova, M., 84M/0405
Laszlo, P., 84M/1270
Latouche, C., 84M/1743

Latouche, L., 84M/0779
Lattanzi, P., 84M/1673, 2833
Lattard, D., 84M/2721
Laubscher, H. P., 84M/0931
Lauer, J. P., 84M/3457
Lauf, R. J., 84M/2318
Laufer, F., 84M/3707
Laul, J. C., 84M/3068, 3069
Laurent, R., 84M/2083, 2131
Lavado, R. S., 84M/0147
Laverdiere, M. R., 84M/1345
Laverne, C., 84M/2170, 2179, 2185, 2197, 3463, 3580
Laversanne, J., 84M/1457
Laville, E., 84M/0983
La Volpe, L., 84M/3139, 3355
Lavrent'eva, I. V., 84M/1132, 2643
Lavrova, L. D., 84M/2023
Lawless, J. G., 84M/3101, 3748
Lawrence, W. T., 84M/4465
Laxen, D. P. H., 84M/0643
Laxton, J. L., 84M/0308
Lazar, B., 84M/0656
Lazarenko, E. E., 84M/0743, 1817
Lazarenko, E. K., 84M/3184, 3185
Lazarus, A. J., 84M/3087
Lazcano, A., 84M/2786
Lazebnik, K. A., 84M/0799, 4283
Lazebnik, Yu. D., 84M/4283
Lazur, Y. M., 84M/3895
Lazutkina, L. N., 84M/4012
Le, X., 84M/4616
Leake, B. E., 84M/2241, 3526
Leake, R. C., 84M/0957, 3033, 3450
Leavens, P. B., 84M/1917, 3231
Leavitt, S. W., 84M/3059
Leavy, B. D., 84M/1658
Le Bas, M. J., 84M/2342
Lebel, J., 84M/2979
Leblanc, M., 84M/0228, 2136
Leca, X., 84M/2565
Le Caignec, R., 84M/1458
Leclaire, H., 84M/2169
Ledermann, H., 84M/0927
Le Duigou, J., 84M/0411
Lee, A. F., 84M/1247
Lee, A. I. N., 84M/3666
Lee, C. A., 84M/1695
Lee, D.-L., 84M/4550
Lee, D. E., 84M/1222-1225, 1737, 4129
Lee, D. S., 84M/2627
Lee, H. G., 84M/2634
Lee, J. H., 84M/3811
Lee, S. Y., 84M/0141
Lee, Y., 84M/0027
Lee-Berman, R., 84M/2006, 2010
Leeden, M. C. van der, 84M/0387
Leelanandam, C., 84M/3179
Leeman, W. P., 84M/2947
Leemput, L. Van, 84M/1318
Leeuw, J. W. de, 84M/0678, 0701
Lefebvre, A., 84M/0767
Lefebvre, J.-J., 84M/1856
Lefeuvre, E., 84M/0222
Lefevre, C., 84M/0582
Leff, C. E., 84M/0242
Lefin, J.-P., 84M/1805
Le Flem, G., 84M/1404
LeFont, M., 84M/4264
Lefort, J. P., 84M/3612
Legierski, J., 84M/1676
Legkova, G. V., 84M/0978, 1846
Le Guen de Kerneizon, M., 84M/0594
Leguey, S., 84M/0160
Leguy, C., 84M/1776
Lehall, M. K., 84M/3701
Lehmann, G., 84M/1377, 2281, 2283, 2529
Lehmann, J., 84M/0116, 2717
Leikine, M., 84M/1273
Lein, A. Yu., 84M/0687
Lein, R., 84M/3226
Leinen, M., 84M/4143
Leisure, F. G., 84M/0299
Leitch, E. C., 84M/2132
Leite, C. R., 84M/4248
Le Masurier, W. E., 84M/1732
Lemons, K. W., 84M/2462
Lendvay, E., 84M/0423
Lenk, S., 84M/2229
Lenkowski, W., 84M/4369
Lensch, G., 84M/2107
Leo, G. W., 84M/4516
Leonardsen, E. S., 84M/1835, 2515, 3133
Leone, G., 84M/0098
Leone, M., 84M/2209
Leoni, L., 84M/2483
Leontief, W., 84M/1256
Lepley, L., 84M/0277
Lepp, N. W., 84M/1519
Lerbekmo, J. F., 84M/1221
Le Roex, A. P., 84M/0574,1370
Leroy, J., 84M/3913
Leskova, N. V., 84M/4263
Lesure, F. G., 84M/1505
Letnikov, F. A., 84M/1662
Létolle, R., 84M/2977
Letouzey, J., 84M/0938
Letsch, J., 84M/2332
Levay, J., 84M/2002
Leveque, R., 84M/1576
Lévesque, A., 84M/1900
LeVesque, C. S., 84M/3708
Levi, B., 84M/1207
Levi, T., 84M/3496
Levin, J., 84M/0262
Levine, J. S., 84M/2785
Levitan, M. A., 84M/3464
Levitskiy, V. V., 84M/2554, 2791, 4082
Levtov, V. L., 84M/3962
Lewan, M. D., 84M/3060
Lewington, G. L., 84M/3661
Lewis, B. T. R., 84M/2162
Lewis, C. A., 84M/3056
Lewis, D. G., 84M/2693
Lewis, J. D., 84M/2907
Lewis, R. S., 84M/3099
Lewis, T., 84M/4551, 4552
Leyden, D. E., 84M/2449
Leyfman, I. Ye[E]., 84M/1802
Leyreloup, A. F., 84M/4475
Li, B., 84M/1429, 3014
Li, C., 84M/2692, 4330
Li, D., 84M/2576
Li, G., 84M/1051
Li, H., 84M/3483
Li, J., 84M/0996, 1796
Li, K., 84M/0123
Li, L., 84M/1818, 2427
Li, L. V., 84M/1421
Li, R., 84M/1794
Li, S., 84M/1493, 2577
Li, T., 84M/2350, 2851, 3978, 4177
Li, X., 84M/0776
Li, Y., 84M/4086
Li, Y.-H., 84M/0321
Li, Z., 84M/0776, 1476, 1493, 2505
Liaw, W. K., 84M/1533
Libby, W. G., 84M/3664
Liborio, G., 84M/3135
Lichte, F. E., 84M/0726
Liebau, F., 84M/1381
Lieber, W., 84M/3607
Liebermann, R. C., 84M/2538
Liebertz, J., 84M/1602
Liegeois, J. P., 84M/3369
Lightfoot, P. C., 84M/3856
Likhachev, A. P., 84M/0233
Lima-de-Faria, J., 84M/0152
Limmer, A., 84M/0447
Lin, C., 84M/0053, 1494
Lin, C.-X., 84M/2678
Lin, C.-Y., 84M/3806
Lin, D., 84M/1794
Lin, F.-J., 84M/4090
Lin, J.-C., 84M/3809
Lin, R., 84M/4166
Linares, J., 84M/0098, 2474, 2968, 3715
Lincoln, F. J., 84M/2680
Lind, T., 84M/1641, 1649, 1650, 4054
Lindahl, I., 84M/0224
Lindh, T., 84M/3610
Lindsay, W. L., 84M/0095, 0096
Lindsley, D. H., 84M/0453, 2720
Lindstrom, D. J., 84M/0378
Ling, Y., 84M/3118
Linz, E., 84M/4163
Liotard, J.-M., 84M/1719
Liou, J. G., 84M/0466, 1611, 1618, 2271
Lipin, B. R., 84M/1879
Lipkina, M. I., 84M/3482
Lippard, S. J., 84M/2026, 4354
Lippmann, F., 84M/0384, 2486
Lippolt, H. J., 84M/2340, 3650
Lipschutz, M. E., 84M/0740, 3104
Lishnevskiy, E. N., 84M/1689
Lisitsyn, A. P., 84M/0608, 1762, 2493
Lisle, R. J., 84M/2256, 4298, 4307
Liso, M. J., 84M/3201
Litovchenko, A. S., 84M/2283
Little, I. P., 84M/3016
Littlejohn, A. L., 84M/2938
Litvin, A. L., 84M/0786
Litvin, M. A., 84M/4048
Litvinovskiy, B. A., 84M/1662, 2014
Liu, C., 84M/4112
Liu, D., 84M/4165
Liu, G., 84M/3886, 3890
Liu, J., 84M/2349, 3925
Liu, K., 84M/1493
Liu, L.-G., 84M/0406, 1606, 2687, 3986, 4003
Liu, M., 84M/4177
Liu, Q., 84M/4270
Liu, R., 84M/1116
Liu, S., 84M/1479
Liu, W., 84M/1741
Liu, X., 84M/0727, 1424, 4330
Liu, Y.-S., 84M/3782
Liu, Z., 84M/0943, 4458
Liu, Z.-Q., 84M/3869
Livingston, W. R., 84M/1265
Livingstone, A., 84M/1919, 2546, 3243
Livingstone, D. A., 84M/3615
Lloyd, D., 84M/2294
Lloyd, G. E., 84M/1233, 1957
Lloyd, J. W., 84M/0650, 3010, 4546
Lo Bascio, A., 84M/3422
Lobato, L. M., 84M/2855
Loberg, B. E. H., 84M/1680
Lobkov, V. A., 84M/0707
Locher, F. W., 84M/0317
Loeh, H. J., 84M/3855
Lof, P., 84M/0085
Loferski, P. J., 84M/1879
Lofgren, G. E., 84M/0349, 0472
Lofty, G. J., 84M/3701
Lo Giudice, A., 84M/2883, 3354
Logothetis, J., 84M/2200
Loi, K. S., 84M/0143
Loijens, M., 84M/1910
Loiselle, M. C., 84M/2944
Lokanatha, S., 84M/3813
Loktina, I. N., 84M/3512
Lombardi, G., 84M/0867, 2447
Lombardo, B., 84M/2098, 3145, 3153
Loncarevic, B. D., 84M/1196
London, D., 84M/3182
Loney, R. A., 84M/2038
Long, A., 84M/1738, 3059
Long, C. B., 84M/2873
Long, D. T., 84M/1790
Long, J. V. P., 84M/1560, 3107
Longstaffe, F. J., 84M/2955, 4128
Longworth, G., 84M/2978
Lonker, S. W., 84M/1832
Loomis, T. P., 84M/2637
López, J. M. González, 84M/2613
Lopez-Acevedo, V., 84M/0388
López Aguayo, F., 84M/2702, 3475

Lopez Camacho, B., 84M/3644
Lopez-Cortes, A., 84M/2229
Lopez Martinez, M., 84M/3653
López Ruiz, J., 84M/3126, 3154, 3418
Lorand, J.-P., 84M/3208
Lord III, C. J., 84M/2982
Loreto, L., 84M/1229
Lorprayoon, V., 84M/1316
Loss, R. D., 84M/0723
Lotse, E., 84M/3715
Lott, D. E., 84M/2629
Lou, S., 84M/0615
Lougheed, M. S., 84M/0220
Loutit, T. S., 84M/2962
Loveland, P. J., 84M/1858
Lovell, J. P. B., 84M/0917
Lovell, M. A., 84M/1522
Loveridge, W. D., 84M/1219
Low, A. J., 84M/3670
Low, E. J., 84M/3670
Low, P. F., 84M/3714
Lowry, R. K., 84M/1560
Lu, Y., 84M/3911
Lubala, R. T., 84M/0988, 2057
Lucas, J., 84M/2709
Lucchesi, S., 84M/3134
Lucchetti, G., 84M/3131, 3132
Lucchitta, I., 84M/1014
Luce, R. W., 84M/4544
Lucido, G., 84M/0965
Luck, J.-M., 84M/3091
Lucotte, M., 84M/3947
Ludden, J. N., 84M/0554, 2042, 2044
Luedke, R. G., 84M/3403
Lugli, W., 84M/3717
Lugmair, G. W., 84M/4206, 0589, 0747, 1730, 2901
Luhr, J. F., 84M/3421
Lui, Z., 84M/2607
Lukas, H. L., 84M/0379
Lukyanova, L. I., 84M/2900
Lumpkin, G. R., 84M/3120, 3791
Lumpkin, N. E., 84M/3120
Luongo, G., 84M/3422
Lupton, J. E., 84M/0508
Luszczkiewicz, A., 84M/4253
Lutts, A., 84M/0058
Luys, M. J., 84M/2518
Luz, B., 84M/0517, 2839, 2840
Luzin, V. P., 84M/2521
Lyakhovich, V. V., 84M/0903
Lyapunov, S. M., 84M/1667
Lyman, P. S., 84M/3842
Lynas, B. D. T., 84M/4408
Lyons, J. B., 84M/1152
Lyubarskaya, G. A., 84M/0361
Lyustikh, A. Ye[E]., 84M/2899

Ma, C., 84M/3892
Ma, F., 84M/0840
Ma, W., 84M/1116
Mabin, M. C. G., 84M/0035, 0036
Mac Caskie, D. R., 84M/2859
Maccarrone, E., 84M/0634, 3353
Macciotta, G., 84M/3420
MacDonald, E. H., 84M/1251
Macdonald, R., 84M/2870, 3372
Macdougall, J. D., 84M/0589, 1730, 1734, 2901, 4206
Macek, J., 84M/0966, 0968
Machajdík, D., 84M/0118
Macintyre, I. G., 84M/0728
Macintyre, R. M., 84M/4359
Mackenzie, A. B., 84M/0588
Mackenzie, A. S., 84M/3047, 3056
Mackenzie, F. T., 84M/1754, 1910
Mackenzie, F. T., 84M/3219
Mackenzie, R. C., 84M/2468, 3171
Mackin, J. E., 84M/0402
Mackinnon, I. D. R., 84M/0357
Macko, A., 84M/4169
Macko, S. A., 84M/4170, 4181
MacLean, W. H., 84M/1503
MacLeod, N. S., 84M/1012
MacPherson, G. J., 84M/0735, 4200
MacPherson, W. R., 84M/4530
MacRae, N. D., 84M/1608
Madon, M., 84M/3995
Madsen, H. E. L., 84M/0201, 0422
Maeda, T., 84M/2472
Maes, A., 84M/1295, 3750
Magara, K., 84M/2557
Magaritz, M., 84M/1739, 2025, 2214, 2985, 3013
Mahadevan, T. M., 84M/2842
Mahmoud, I. E. D. A. W., 84M/2620
Mahon, W. A. J., 84M/3018
Mahoney, J. J., 84M/1730
Maijer, C., 84M/1205, 2254
Mainprice, D. H., 84M/4318
Maiorova, O. N., 84M/0760
Mair, J. A., 84M/1196
Maithani, P. B., 84M/0575
Maj, J. J., 84M/1374
Maj, S., 84M/4526
Majer, V., 84M/0972
Majumder, T., 84M/2824
Makhotko, V. F., 84M/0799, 4283
Mako, D. A., 84M/3927
Makovicky, E., 84M/0194, 2700
Maksimovskii, S. N., 84M/3962
Malafronte, A., 84M/1459
Maleev, M. N., 84M/0424
Malézieux, J. M., 84M/3827
Malinko, S. V., 84M/3232.
Malinovskii, I. Yu., 84M/2728
Malinovskii, Yu. A., 84M/3834, 3797, 3820, 4276, 4286
Maliotis, G., 84M/2077, 3038
Mal'kov, B. A., 84M/0951
Mallard, C., 84M/3718
Mallick, D. I. J., 84M/2142, 3398
Mallik, S. Basu, 84M/0993
Malo Sastre, M. A., 84M/2704
Malpas, J., 84M/2129
Maltman, A. J., 84M/3524
Malumian, N., 84M/4347
Maluski, H., 84M/0022
Malvin, D. J., 84M/3111
Malyasova, Z. V., 84M/0525
Malyuk, B. I., 84M/2572, 3868
Mamchur, G. P., 84M/0510
Man, F., 84M/2350, 2851
Manby, G. M., 84M/2253
Mandarino, J. A., 84M/0884, 1153, 1913, 1921, 1922
Manecki, A., 84M/0318
Mangelsdorf Jr, P. C., 84M/1757
Mangini, A., 84M/2563, 3944
Mango, F. D., 84M/3052
Mann, A. C., 84M/1724
Mann, A. W., 84M/0657, 4142
Mann, D. R., 84M/2630
Manning, D. A. C., 84M/1555, 3211, 3344
Manson, D. V., 84M/0492, 0495, 0828, 4052
Mantler, M., 84M/2396
Manton, W. I., 84M/3656
Mao, C.-X., 84M/1729, 2901
Mao, H. K., 84M/3676-3678, 3790, 3800, 3821, 3954
Marais, D. J. Des, 84M/3070, 4204
Marakushev, A. A., 84M/0950
Marbeau, J.-P., 84M/0222
Marcelot, G., 84M/0582, 1025
Marchadour, P., 84M/2476
Marchenko, E. Ya., 84M/1852
Marchev, P., 84M/0976
Marchig, V., 84M/3027
Marcoux, J., 84M/4431
Mardix, S., 84M/1393
Marek, V., 84M/1874, 1892
Maresch, W. V., 84M/1617
Marfil, R., 84M/0863, 1074, 2586, 2614
Marfunin, A. S., 84M/4269
Margolin, E. M., 84M/2156
Margulies, L., 84M/3075
Margulis, L., 84M/2229
Mariano, A. N., 84M/3252
Marignac, C., 84M/1211
Mariko, T., 84M/0765
Marine, I. W., 84M/2460
Marinelli, G., 84M/0985
Marinenko, J. W., 84M/3251, 3723
Marinos, G. P., 84M/2100
Maris, P. J., 84M/3943
Markhinin, E. K., 84M/4164
Marocco, R. , 84M/3899
Marques, L. S., 84M/4402
Marriner, G. F., 84M/4123, 4134
Marsh, B. D., 84M/2918, 3404
Marsh, J. S., 84M/1705
Marsh, N. G., 84M/2085, 2192
Marsh, N. G., 84M/2894
Marsh, P. D., 84M/1147, 4506
Marsh, S. E., 84M/0239
Marshall, B. D., 84M/3115
Marshall, E. M., 84M/0337
Marshall, L. A., 84M/3328
Marshall, W. L., 84M/0369, 1603, 3955
Marshintsev, V. K., 84M/0981
Marsii, I. M., 84M/0782
Mart, L., 84M/0646
Martens, A. W., 84M/2608
Martens, C. S., 84M/2984
Martin, A., 84M/3637
Martin, D., 84M/4436
Martin, H., 84M/0012, 1685, 1805, 2453, 2999, 3256, 3276, 3279, 3282, 3291, 3296
Martin, J. E., 84M/2616
Martin, J. H., 84M/3029, 4136
Martin, J. S., 84M/2750
Martin, R. F., 84M/1861, 1292
Martindale, W., 84M/0958
Martín Escorza, C., 84M/0869
Martín Pozas, J. M., 84M/2407, 2702
Martinez, M. Lopez, 84M/3653
Martinez Alfaro, P. E., 84M/3644
Martínez Martínez, J. M., 84M/3152
Martovitskiy, V. P., 84M/3962, 0816
Marty, B., 84M/4096
Martyn, J. E., 84M/3861
Marumo, F., 84M/0175, 1236, 1356, 1621, 4037
Maruszczak, H., 84M/1322
Maruyama, S., 84M/0028, 1618, 2271
Marvin, R. F., 84M/1222-1225
Masalovich, A. M., 84M/3993
Masaytis, V. L., 84M/4208
Maschmeyer, D., 84M/1377, 2529
Mashchak, M. S., 84M/4208
Mashimo, T., 84M/2280
Mashkovtsev, R. I., 84M/3814
Masi, U., 84M/4108
Maslennikov, , V. V. 84M/3881
Mason, B., 84M/1259
Mason, B. H., 84M/3089
Mason, I. M., 84M/2559
Mason, R., 84M/2126
Mason, T. O., 84M/1157
Masse, P., 84M/1188
Massey, N. W. D., 84M/2920
Massoli-Novelli, R., 84M/1674
Masson, H., 84M/1993
Masuda, A., 84M/0371, 3621, 4196
Masuoka, E. J., 84M/0669
Masurier, W. E. Le, 84M/1732
Masutomi, K., 84M/4221, 4225
Mathai, J., 84M/4497
Mathews, W. H., 84M/0045
Mathey, B., 84M/3645
Mathieson, N. A., 84M/3914
Mathieu, G., 84M/2846
Matkovsky, A. O., 84M/3573
Matkovsky, O. I., 84M/0862
Matoske, C. P., 84M/0316
Matson, D. W., 84M/0457
Matsubara, S., 84M/0158, 0161, 0888, 4225, 4255, 4288, 4575-4577, 4586, 4588, 4598, 4603
Matsuda, S., 84M/1370

Matsuda, T., 84M/1277, 3199
Matsueda, H., 84M/0784
Matsui, T., 84M/4192
Matsui, Y., 84M/2716, 4014
Matsumoto, E., 84M/4178
Matsumoto, K., 84M/0417
Matsumoto, R., 84M/2199, 2441
Matsumoto, Y., 84M/4600
Matsumura, S., 84M/4600
Matsuoka, K., 84M/0028
Matsushita, T., 84M/0451
Matthewman, J. C., 84M/1352
Matthews, A., 84M/0520, 0521, 4481
Mattigod, S. V., 84M/1604, 3934
Mattioli, V., 84M/0880, 3603
Matukhina, V. G., 84M/0304
Matusek, M., 84M/4531
Matveenkov, V. V., 84M/1047
Matveeva, O. P., 84M/4273
Matveichik, B. S., 84M/3200
Matvienko, E. N., 84M/1931, 3794
Matyash, I. V., 84M/0786, 2283
Maurel, C., 84M/2686, 3973
Maurel, P., 84M/2686, 3973
Maurer, H., 84M/1080
Maurice, Y. T., 84M/2921, 2933
Maurizio, R., 84M/1179
Maury, R., 84M/1895, 2828
Maury, R. C., 84M/0582, 0594, 1021, 1025, 4371
Mavrides, A., 84M/2101
Mawer, C. K., 84M/1971
Max, M. D., 84M/0960, 3000, 3309, 3612, 4474
Maxwell, J. C., 84M/4295
Maxwell, J. R., 84M/3048, 3056
Maxwell, R. J., 84M/2837
Mayeda, T. K., 84M/3093, 3110, 4205
Mayer-Meier, J., 84M/1238
Mays, R. E., 84M/0523
Mazor, E., 84M/0663
Mazumdar, S., 84M/2742
Mazzetti, G., 84M/0427
Mazzi, F., 84M/2507, 2532
Mazzucchelli, M., 84M/2050
Mazzucotelli, A., 84M/2431
McArthur, J. M., 84M/2615, 2841
McAtee Jr, J. L., 84M/1289, 2462
McBride, M. B., 84M/1310, 2467, 3742
McCaig, A. M., 84M/1053
McCallister, R. N., 84M/3987
McCallum, I. S., 84M/4398
McCallum, M. E., 84M/1020
McCammon, C. A., 84M/3986
McCarthy, G. J., 84M/2385
McCarthy, T. S., 84M/1876, 1994
McClay, K. R., 84M/0845, 2603, 4538
McClune, W. F., 84M/2379
McConnell, J. D. C., 84M/0452, 4031
McConnell, J. W., 84M/2942
McCorkell, R. H., 84M/0665, 2980
McCourt, W. J., 84M/4521, 4522
McCoy, G., 84M/4418
McCraw, J. D., 84M/1036
McCulloch, M. T., 84M/0030, 0032, 1731, 2907, 4124
McCullough, H. M., 84M/1439
McCutcheon, S. R., 84M/3928
McDermott, M. M., 84M/0274
McDonough, W. F., 84M/4417
McDougall, I., 84M/0015, 0038
McDowell, F. W., 84M/3622
McDowell, R. B., 84M/2770
McDowell, S. D., 84M/3168, 3510
McElhaney, M. S., 84M/1015
McEwing, C. E., 84M/2697
McGarrah, J. E., 84M/0312
McHale, A. E., 84M/0408
McGarrah, J. E., 84M/3744-3746, 3971
McGee, E. S., 84M/4184
McGill, G. E., 84M/3078
McGill, R. J., 84M/2671
McGregor, V. R., 84M/4150
McHardy, W. J., 84M/2469, 3742
McHenry, J. R., 84M/3931
McIntyre, G. J., 84M/0200
McIntyre, T., 84M/3309
McIver, J. R., 84M/1994
McKeague, J. A., 84M/3716
McKee, E. H., 84M/2954, 3899
McKeegan, K. D., 84M/3079
McKelvey, V. E., 84M/1414
McKenzie, D., 84M/2334, 3047, 3303, 3442, 4297
McKenzie, J. A., 84M/0633
McKeon, J. B., 84M/0239
McKinnon, B., 84M/3765
McLaren, A. C., 84M/2524
McLellan, E. L., 84M/2240, 2249
McLelland, J. M., 84M/3559, 4338
McLennan, S. M., 84M/0513, 2970, 2975, 4150
McLeod, R. L., 84M/4236
McManus, J., 84M/1780
McMechan, G. A., 84M/1196
McMenamin, D. S., 84M/3617
McMillan, J. W., 84M/2978
McMillan, P. F., 84M/2528
McMillan, W. J., 84M/2927
McMurtry, G. M., 84M/0132, 3441
McNaughton, N. J., 84M/0621, 3003, 3662
McNutt, R. H., 84M/2955
McPhie, J., 84M/3431
McQueen, R. G., 84M/3411
McSween Jr, H. Y., 84M/0740, 1015, 3094, 4197
Means, W. D., 84M/1961
Meary, A., 84M/4081
Measures, C. I., 84M/2800
Mebed, M. M., 84M/1167
Medenbach, O., 84M/0883, 1929, 2509, 3218
Medford, G. A., 84M/2359, 2837
Medina, J. A., 84M/0160
Medved, J., 84M/0729
Meeker, G. P., 84M/0738
Meent, D. van de, 84M/0681
Mehnert, H. H., 84M/3929
Meijer, A., 84M/1733
Meisner, L. B., 84M/3810
Mekhonoshin, A. S., 84M/0826
Melcher, C. L., 84M/2660
Melchior, J., 84M/3435
Melent'yev, B. N., 84M/0392
Melfi, A. J., 84M/3765, 4402
Mellini, M., 84M/1887, 3186, 3795, 3796
Mel'nik, Yu. M., 84M/3364
Mel'nikova, L. V., 84M/0286
Melone, N., 84M/1745, 2838
Melson, W. G., 84M/2197, 4100
Menchetti, S., 84M/2695
Mendelssohn, M. J., 84M/2817
Meneilly, A. W., 84M/1996, 4334
Mengel, F. C., 84M/1850
Mengel, K., 84M/0557
Menot, R.-P., 84M/2888
Men'shikov, Yu. P., 84M/1928, 1931, 3254
Mensing, T. M., 84M/0049
Menzies, M. A., 84M/1704, 1705, 2908, 2947
Mercier, J.-C. C., 84M/4015
Mercier, J.-L., 84M/3613
Mereiter, K., 84M/2548, 3248, 3844, 3848, 3851
Mereu, R. F., 84M/1196
Mergoil-Daniel, J., 84M/4228
Merino, E., 84M/1059
Merlino, S., 84M/0167, 0857, 3186, 3795
Meronek, G. C., 84M/1523
Merritt, J. W., 84M/0308
Mertens, R., 84M/1640, 2765
Mertsalov, I. M., 84M/1803
Messiga, B., 84M/2233
Metalidi, S. V., 84M/0762, 1852
Metarko, T., 84M/4469
Metcalfe, P., 84M/0046
Metrich, N., 84M/0781
Mets, O. F., 84M/1831
Metson, J. B., 84M/2439
Metwalli, M. H., 84M/1086, 1087
Metz, J., 84M/4400
Metz, P., 84M/3287
Metzger, R., 84M/2002
Meunier, A., 84M/2490, 3498
Meunier, J. D., 84M/3758
Meyer, C. E., 84M/1853, 4418
Meyer, D., 84M/1571
Meyer, H.-J., 84M/0367
Meyer, I., 84M/2297
Meyer, K., 84M/3266
Meyers, P. A., 84M/0697
Meyers, R. E., 84M/1503
Meysner, L. B., 84M/3577, 3578
Micera, G., 84M/1309, 3728
Michael, H., 84M/4418
Michalik, J., 84M/0599
Michard, A., 84M/0556, 4091, 4168, 4430
Michard, G., 84M/0363, 4091, 4168
Michel, H. V., 84M/1819
Michel, R., 84M/3088
Middleton, H. R., 84M/0065
Middleton, R., 84M/3630, 4355
Miehe, G., 84M/3816
Mielke, P., 84M/3290
Miesch, A. T., 84M/2037
Migdisov, A. A., 84M/2167, 2187, 2194
Migeon, H. N., 84M/1576
Miguez, F., 84M/2657
Mikhailovskaya, L. N., 84M/2900
Mikhalev, G. P., 84M/0981
Mikhaylik, Ye [E]. V., 84M/2024
Mikhina, V., 84M/2152
Miklishansky, A. Z., 84M/2194
Miklos, J., 84M/0566
Miklosy, E., 84M/1629
Miko, O., 84M/0253
Milanovskiy, Ye[E]. Ye[E]., 84M/0951
Milazzo, T., 84M/3090
Milella, G., 84M/1396
Miles, D. L., 84M/0067
Miles, N. M., 84M/0438
Mileson, P., 84M/0060
Mill, T., 84M/3741
Millard, D. L., 84M/2436
Millard Jr, H. T., 84M/0591
Milledge, H. J., 84M/2816, 2817
Miller, B. W., 84M/1181
Miller, D. K., 84M/2328
Miller, J. A., 84M/2344, 3642
Miller, M. F., 84M/2369
Miller, S. A., 84M/3855
Miller, S. E., 84M/1540
Miller, S. L., 84M/2786, 3101
Millero, F. J., 84M/1782, 3994
Mills, A. A., 84M/3413
Millward, D., 84M/4134
Millward, G. E., 84M/3703
Milton, C., 84M/3170, 3251
Milton, D. J., 84M/3426
Milton, N. M., 84M/0673
Mimuro, Y., 84M/3151
Minagawa, T., 84M/0784, 0524, 4250, 4573, 4574, 4578, 4580
Minařík, L., 84M/0563
Minato, H., 84M/1630, 2487, 2754, 4267
Minčeva-Stefanova, J., 84M/0852
Minh, D. Vu, 84M/0733
Minnis, M. M., 84M/0052
Minster, J.-F., 84M/2796, 2797, 4091, 4168
Mirra, P., 84M/1864
Miruho, K. B., 84M/2057

Mishra, B., 84M/1592
Mishra, U. C., 84M/3935
Misstear, B. D. R., 84M/3010
Mitchell, A. H. G., 84M/3618
Mitchell, J. G., 84M/2342
Mitchell, M., 84M/1068
Mitchell, R. H., 84M/0043, 2045, 3391, 3667, 4383
Mitchell, R. K., 84M/0486, 2768
Mitchell, R. S., 84M/1392
Mitchell, W. I., 84M/1991
Mito, A., 84M/1237, 3780
Mitra, G. B., 84M/3736, 4339
Mitsyuk, B. M., 84M/1378
Mitterer, R. M., 84M/0689
Miura, N., 84M/2734, 2735, 2737, 2738
Miura, T., 84M/0456
Miyahisa, M., 84M/0784, 1902, 4258, 4574
Miyai, M., 84M/1537
Miyairi, N., 84M/4601
Miyakawa, K., 84M/4499
Miyamoto, M., 84M/1237, 3780, 4004
Miyano, T., 84M/0465, 1613
Miyata, S., 84M/4028
Mizon, K. J., 84M/2854
Mizota, T., 84M/1366
Mizuta, H., 84M/3737
Mladeck, M. H., 84M/0773, 3238
Mo, M., 84M/3911
Mobbs, S. F., 84M/3576
Mochalov, A. G., 84M/0818, 1928
Moĕlo, Y., 84M/3209, 3210, 3215, 4266
Mogessie, A., 84M/4215
Mohammadi, M., 84M/4180
Mohammed, A. E. R. O., 84M/0986
Mohr, D. W., 84M/3564, 4281
Mohr, P., 84M/0939, 1190, 4378
Mohsenzadeh, T., 84M/3566
Moiseyev, B. M., 84M/0002, 3627
Moitinho de Almeida, F., 84M/3012
Moldowan, J. M., 84M/3051
Moles, N. R., 84M/0850
Molin, G., 84M/3803
Möller, P., 84M/0825, 1810
Momoi, H., 84M/0784, 4250
Mon, R., 84M/0549
Monaghan, M. C., 84M/1759
Monchoux, P., 84M/3596
Mongkoltip, P., 84M/2019
Monier, G., 84M/4228
Monin, A. S., 84M/1047, 3021
Moniot, R. K., 84M/3090
Monnin, C., 84M/0364
Monrad, J. R., 84M/2363
Montanari, A., 84M/1819
Monte, M. Del, 84M/1520
Montel, G., 84M/0440, 2609
Montgomery, C. W., 84M/2004
Monty, C., 84M/0411
Moodie, A. F., 84M/1358
Moody, J. B., 84M/1571
Mook, W. G., 84M/1657, 3007
Mookherjee, A., 84M/1592
Moor, G. De, 84M/2206
Moorbath, S., 84M/2346, 2956, 3655
Moorby, S. A., 84M/2166, 2168
Moorcroft, S., 84M/1517
Moore, A. C., 84M/4384
Moore, C. B., 84M/2425
Moore, D., 84M/3669
Moore, D. E., 84M/0370, 3561
Moore, F., 84M/4260
Moore, J. C., 84M/3409
Moore, J. McM., 84M/2596
Moore, P. B., 84M/1367, 2508, 2514, 3236, 3697, 3798, 3852
Moore, R. B., 84M/1039
Moore, W. E., 84M/0697
Moore, W. S., 84M/2631, 4089
Moore Jr, J. M., 84M/1009
Moores, E., 84M/2112
Moorman, A. C., 84M/0009
Morand, P., 84M/0746
Morandi, N., 84M/0135, 2473
Morante, M., 84M/0160
Morbidelli, L., 84M/2056, 3425
Moreau, B., 84M/3636
Moreau, M., 84M/1458
Morell, B. G., 84M/1519
Morgan, B. A., 84M/4443
Morgan, D. J., 84M/1883, 3682
Morgenson, L. A., 84M/2176
Mori, H., 84M/3802
Mori, T., 84M/0460
Morimoto, N., 84M/0741, 0748, 4211
Morioka, M., 84M/0456
Moriya, K., 84M/0474, 1235
Mørk, A., 84M/4309
Mørk, M. B. E., 84M/4405
Moro, A. del, 84M/2877, 4106
Morozova, N. I., 84M/4048
Morra, V., 84M/1864
Morris, B. J., 84M/2599, 3042
Morris, R. C., 84M/3551
Morris, R. J., 84M/2844
Morris, R. O., 84M/1410
Morrison, D. A., 84M/1149
Morrison, M. A., 84M/1707, 2160
Morrow, C. A., 84M/0370
Morse, J. W., 84M/0380, 1595, 2708, 3994
Morse, S. A., 84M/2794
Morteani, G., 84M/3204, 3648, 4490
Morten, L., 84M/3520
Morthorst, J. R., 84M/1767
Mortland, M. M., 84M/3748
Morton, J. L., 84M/0293
Morton, R., 84M/0004
Morton, R. L., 84M/1041
Moseley, D., 84M/4210
Moseley, F., 84M/3700
Moss, S. C., 84M/0193
Mossman, D. J., 84M/2583
Motica, J. E., 84M/3916
Motomizu, S., 84M/2416
Mottana, A., 84M/0880, 1906, 3135
Motte, J.-J., 84M/1192
Mottl, M. J., 84M/3463, 3580
Moukarika, A., 84M/2282
Moura, A. C., 84M/3757
Moussine-Pouchkine, A., 84M/2215
Moutte, J., 84M/2136
Moya, J. S., 84M/3705
Mozgova, N. N., 84M/0855, 0859, 3210, 3216, 4266
Mozherin, Yu. V., 84M/4286
Mozier, E. L., 84M/3222
Mposkos, E., 84M/2595
Mrázek, Z., 84M/0856, 1180
Mrose, M. E., 84M/0884, 3696
Muan, A., 84M/0393
Mücke, A., 84M/0877, 0897
Mucci, A., 84M/0380, 3996, 0877, 0897
Mudroch, A., 84M/0661
Muecke, G. K., 84M/2018, 3266
Muehlenbachs, K., 84M/2179, 2867, 3770, 4149
Mueke, G. K., 84M/2923
Mueller, A., 84M/0292
Mueller, P. A., 84M/1260, 2005, 2007, 2010
Muenow, D. W., 84M/0457, 2916
Muhr, M., 84M/3597
Mukherjee, A. D., 84M/3549
Mukherjee, B., 84M/2742
Mukherjee, B. K., 84M/1884
Mukhitdinov, G. N., 84M/2669
Mukhopadhyay, D. K., 84M/2720
Mukhopadhyay, M., 84M/1197
Mukhtarova, N. N., 84M/0199, 1397
Mulder, J., 84M/3933
Mulholland, I. R., 84M/1823
Mullenax, A. C., 84M/4305
Muller, C., 84M/1811
Müller, G., 84M/2618, 3522, 4163
Müller, H. W., 84M/2489
Müller, I., 84M/0652
Müller, P., 84M/1230
Müller, R., 84M/0933
Muller, T., 84M/2771
Müller, W. F., 84M/1578
Müller-Krumbhaar, H., 84M/2456
Mumme, W. G., 84M/0194, 1898, 1924
Munha, J., 84M/2994
Munksgaard, N. C., 84M/2868
Munroe, R. J., 84M/4549
Murad, E., 84M/0187, 2544, 3990
Murakami, N., 84M/4391
Murali, A. V., 84M/2842
Muramatsu, Y., 84M/1890
Muraoka, H., 84M/3317
Murata, H., 84M/3271
Murata, M., 84M/1891
Murdmaa, I. O., 84M/2152
Murnane, R., 84M/2482
Murphy, K., 84M/4144
Murray, C. G., 84M/3319
Murray, D. W., 84M/0294
Murray, J. W., 84M/0613, 1781, 2688
Murthy, K. S. Anantha, 84M/4275
Murthy, S. R. N., 84M/1527
Murty, S. V. S., 84M/0733
Musengie, M. K., 84M/2057
Mussallam, K., 84M/3196
Mussett, A. E., 84M/3626
Muszyński, M., 84M/3223
Mutić, R., 84M/4279
Muza, J. P., 84M/2201
Mužík, L., 84M/3684
Myers, J. D., 84M/2918
Myers, J. S., 84M/2351
Myers, L., 84M/2604
Mykura, W., 84M/0914, 1065
Mysen, B. O., 84M/0353, 0354, 2665, 2666, 3975, 4033-4036

Nabelek, P. I., 84M/2946
Nabholz, W. K., 84M/1080, 1993
Nadeau, P. H., 84M/2469
Nadler, A., 84M/3013
Nag, S. K., 84M/0993, 2029, 2030
Nagai, Y., 84M/0765
Nagao, T., 84M/0829, 2906
Nagasawa, K., 84M/1339
Nagashima, K., 84M/1932, 3839, 4214, 4255
Nagayama, K., 84M/2280
Nagel, J., 84M/0839
Nagornyi, V. A., 84M/0305
Nagpaul, K. K., 84M/1201, 4234
Nagy, B., 84M/2568, 3102
Nahon, D., 84M/0838, 3758
Nahon, D. B., 84M/0133
Naiman, E. R., 84M/0871
Nair, N. G. K., 84M/2268, 2895, 3378
Nair, R. R., 84M/1333
Nairis, H. J., 84M/1828
Nairn, I. A., 84M/1034, 1037
Nakada, S., 84M/2036
Nakai, I., 84M/3839, 4214
Nakajima, T., 84M/0028
Nakajima, W., 84M/4244
Nakamura, A., 84M/1605
Nakamura, Y., 84M/1855
Nakao, U., 84M/4586
Nakata, M., 84M/1901, 2682
Nakazawa, K., 84M/4602
Naldrett, A. J., 84M/2041, 3856
Nambu, M., 84M/1890, 4221
Namiki, M., 84M/1656
Nannetti, M. C., 84M/2473, 3356
Naqvi, S. M., 84M/2972
Narasimha, S., 84M/1135
Narayanaswamy, 84M/4497
Nardin, G., 84M/1385
Narębski, W., 84M/2355, 2356
Narsimha Reddy, M., 84M/3179

Nasar, S., 84M/1256
Naslund, H. R., 84M/3137, 3337
Nassief, M. O., 84M/3372
Natland, J. H., 84M/2174, 2197
Nattrass, W. A., 84M/0227
Naumko, I. M., 84M/1830
Naumov, V. B., 84M/4376
Naumova, I. S., 84M/4247
Nautiyal, C. M., 84M/1816
Navon, O., 84M/2839, 4481
Navrotsky, A., 84M/0357, 0452, 2731, 3824, 3974
Nawaz, R., 84M/0808, 0810
Nayak, V. K., 84M/1821
Naylor, M. A., 84M/3302
Nazarov, M. A., 84M/0750
Neal, C., 84M/1842, 2799, 3205, 3733
Neary, C. R., 84M/2814
Nebel, M., 84M/1041
Nechelyustov, G. N., 84M/0894, 1925, 1938
Nechiporenko, G. O., 84M/0434
Nedachi, M., 84M/0833
Nedelcu, L., 84M/1463
Negro, A. Dal, 84M/1837
Neil, S. T., 84M/3999
Neilson, G. F., 84M/0356
Neimeyer, S., 84M/0734
Neinavaie, H., 84M/2591, 2592
Neiva, A. M. R., 84M/3159, 4098
Nekrasov, I. Ya., 84M/0391, 0855, 4038
Nekrasova, A. N., 84M/0537
Nelen, J. A., 84M/4611
Nelen, J. E., 84M/0796
Nelson, C. S., 84M/1032, 1740
Nelson, D. R., 84M/2907
Nelson, J.-A., 84M/4336
Nelson, R. F., 84M/0669
Nelson, S. A., 84M/4420
Nembrini, G. P., 84M/3225
Němec, D., 84M/0794, 3162
Nemoitin, M. A., 84M/0190
Nenarokov, F. D., 84M/1801
Neri, R., 84M/1079
Nerurkar, A. P., 84M/3575
Nesbitt, B. E., 84M/3563
Nesbitt, H. W., 84M/2439, 3969
Nesbitt, R. W., 84M/3663, 4115
Nesper, R., 84M/3841
Nesteroff, W. D., 84M/2078, 2145
Nesterovich, L. G., 84M/0361, 1593
Netto, O. B., 84M/4344, 4345
Neuhaus, A., 84M/0367
Neuman, R. B., 84M/4335
Neumann, E. R., 84M/1052, 4103
Neumann, M., 84M/3882
Neumann, S., 84M/4527
Neumann van Padang, M., 84M/1029
Neuser, R. D., 84M/2153
Neves, B., 84M/3066
Nevskii, N. N., 84M/2539
Newberry, D., 84M/3235
Newberry, R. J., 84M/1826
Newman, A. C. D., 84M/0092, 0093
Newman, R. A., 84M/2389
Newman, S., 84M/1734
Newmark, R. L., 84M/3463, 3580
Newson, H. E., 84M/4186
Newton, R. C., 84M/0449, 2646, 2726, 3564, 4013
Ni, R., 84M/3909
Ni, S., 84M/2350, 2851
Nicholls, J., 84M/2039
Nichols, I. L., 84M/0232
Nichols, M. C., 84M/2392
Nicholson, R. A., 84M/1812, 3034
Nickel, E., 84M/0928
Nickel, E. H., 84M/1232, 1389, 1903
Nicolas, A., 84M/2136, 4425
Nicoletti, M., 84M/2355, 2356
Nicot, E., 84M/2259
Niedermayr, G., 84M/1924
Niedermeyer, R.-O., 84M/3922
Nielsen, H., 84M/1677
Nielsen, R. L., 84M/2719
Nielson, D. L., 84M/1151
Nielson, K. K., 84M/2399
Niessen, A. K., 84M/0338
Nieto, F., 84M/3164
Nijs, R., 84M/1992
Nikishov, K. N., 84M/0981
Nikkarinen, M., 84M/0671
Nikon Cooper, S. B., 84M/1635
Nilsen, O., 84M/3448
Nisbet, B. W., 84M/2600
Nisbet, E. G., 84M/2084, 3336
Nishi, F., 84M/3837
Nishida, H., 84M/1537
Nishido, H., 84M/4245
Nishiizumi, K., 84M/0749, 3095, 3114
Nishikawa, J., 84M/2906
Nishimura, T., 84M/4241
Nishiyama, T., 84M/0352, 1280
Niskiewicz, J., 84M/4051
Nissen, A. L., 84M/4486
Nissen, H.-U., 84M/2510
Nitsch, K.-H., 84M/3288
Nittrouer, C. A., 84M/3032
Nixon, P. H., 84M/4380, 4382
Noack, Y., 84M/2178
Noble, D. C., 84M/2860, 2954, 3899
Noble, R. J., 84M/3605
Noda, Y., 84M/0195
Nolan, J., 84M/1560
Nold, J. L., 84M/1506
Noll, K., 84M/4561
Noll, W., 84M/2332
Nomura, M., 84M/4225, 4575-4577, 4598
Noonan, A. F., 84M/0737
Nord, A. G., 84M/0202, 1403, 2711
Nord, G., 84M/3251
Norman, D. I., 84M/0548
Norman, E. B., 84M/3082
Normark, W. R., 84M/0293
Noro, H., 84M/1339
Norris, S. J., 84M/3099
Norrish, K., 84M/4075
Norry, M. J., 84M/1254, 1701, 2887
Norton, J. J., 84M/2016
Nosik, L. P., 84M/4069
Notholt, A. J. G., 84M/3698
Notis, M. R., 84M/1585
Noto, S., 84M/0784, 4573, 4578
Nougier, J., 84M/4411
Novich, B. E., 84M/1292
Nowacki, W., 84M/0192
Nowakowski, A., 84M/4242
Nowotny, H., 84M/0205
Noy, R. M. van, 84M/3867
Nozaki, Y., 84M/1785
Nriagu, J. O., 84M/2619, 3697
Nuez, J. de la, 84M/3415
Nukui, A., 84M/2689
Nunes, J. E. L., 84M/2481
Nur, A., 84M/0214
Nürnberg, H. W., 84M/0646
Nurtuganov, B. M., 84M/0286
Nyffeler, U. P., 84M/0321
Nyhan, J. W., 84M/0311
Nyquist, L. E., 84M/3069
Nyström, J. O., 84M/1834, 4201
Nystuen, J. P., 84M/0553, 1981, 1984
Nziengui-Mapangou, P., 84M/0838

Oades, J. M., 84M/3739
Oakley, M. J., 84M/2743
Oates, C. J., 84M/0579
Õba, N., 84M/0125, 3430
Obata, M., 84M/2738, 3520
Oberheuser, G., 84M/0519
Obolenskiy, A. A., 84M/0515
Obrador, A., 84M/1076
O'Carroll, C., 84M/3345
Occelli, M. L., 84M/1321
Očenáš, D., 84M/0301, 0811
Ochin, P., 84M/0418
O'Connell, J. T., 84M/1518
O'Connor, G. A., 84M/0313
O'Connor, P. J., 84M/2873, 3346
Odom, A. L., 84M/2007, 2358
Odom, J. W., 84M/3714
O'Donoghue, M., 84M/0082, 0500, 1634
Oehm, J., 84M/3311
Oen, I. S., 84M/0009
Offler, R., 84M/1844
O'Flynn, M. L., 84M/2578
Ogawa, T., 84M/0474, 1235, 4582
Ogilvy, R. D., 84M/1411, 1412
Ogura, Y., 84M/3894
O'Hara, K. D., 84M/4517
O'Hare, P. A. G., 84M/2647
Ohashi, H., 84M/2506
Ohashi, Y., 84M/3799, 4287
Ohba, S., 84M/0195
O'Hearn, T., 84M/2154, 2197
Ohmasa, M., 84M/0191
Ohmoto, H., 84M/2659
Ohmura, K., 84M/1214
Ohnenstetter, D., 84M/2093, 4428
Ohnenstetter, M., 84M/2093, 4428
Ohsako, N., 84M/3430
Ohta, K., 84M/4178
Ohta, M., 84M/0441
Ohtani, E., 84M/3980
Ohtomo, J., 84M/1642
Ohtsubo, M., 84M/0102
Ohtsuka, Y., 84M/3843
Oinuma, K., 84M/1280
Oishi, Y., 84M/0410, 1581, 1582
Okamoto, A., 84M/4591, 4592, 4604
Okano, O., 84M/3687
O'Keeffe, M. A., 84M/2536
Okhapkin, N. A., 84M/1492
Oki, Y., 84M/0126
Okouchi, S., 84M/1538
Okrugin, A. V. , 84M/4093
Okrusch, M., 84M/4151
Oksengorn, F. S., 84M/0305
Okubo, T., 84M/2471
Okuyama, Y., 84M/3507
Olafsson, M., 84M/1570
Olaszi, V., 84M/1532
Olaussen, S., 84M/4309
Old, R. A., 84M/0755
Oldfield, E., 84M/2495
Olerud, S., 84M/3900
Oleynikov, B. V., 84M/2863, 4093
Oliveira, J. M. Santos, 84M/3036, 3037
Olives Baños, J., 84M/1371
Olkiewicz, S., 84M/3720
Ollila, J. T., 84M/0283
Olliver, J. G., 84M/2612
Olorunfemi, B. N., 84M/3040
Olovsson, I., 84M/0200
Olsen, E., 84M/0735
Olsen, E. J., 84M/3110
Olsen, S. N., 84M/2246, 2278, 3560
Olszewski Jr, A. A., 84M/0039
Omaljev, V., 84M/0560
Ondráček, J., 84M/0056
O'Neil, J. R., 84M/0571, 2843, 2946, 3115, 4158
Onikhimovskiy, V. V., 84M/0535
O'Nions, R. K., 84M/0596, 2867, 3442, 4294
Ono, A., 84M/1142
Onuki, H., 84M/0833
Onuma, K., 84M/0829, 2715
Opdyke, N. D., 84M/3649
Orbell, G. E., 84M/0144
Ordóñez, S., 84M/3475
Oreski, E., 84M/3920
Organova, N. I., 84M/0782, 0855
Orlandi, P., 84M/0857, 1887, 3183
Orlický, O., 84M/1166
Orlov, Yu. L., 84M/0816
Ormerod, E. C., 84M/0093
Oro, J., 84M/2786, 3101

Ortega-Gutierrez, F., 84M/4343
Ortega-Huertas, M., 84M/3164, 3919
Orth, C. J., 84M/4207
Ortoleva, P., 84M/1059
Orville, P. M., 84M/1557
Osadchiy, Ye[E]. G., 84M/3950
Osakabe, N., 84M/3199
Osatenko, M. J., 84M/2359
Osborn, E. F., 84M/0346
Oscarson, D. W., 84M/0097, 1533
Óskarsson, N., 84M/2867
Ostapenko, V. F., 84M/3366
Ostertag, R., 84M/4197
Ostroumov, E. A., 84M/0600
Ostwald, J., 84M/2484, 3207
Oswald, H. R., 84M/1388
Oterdoom, W. H., 84M/1863
Otsuka, N., 84M/2464
Otsuka, R., 84M/0124, 1619, 2739, 2740, 4245
Otsuki, M., 84M/0802
Ott, U., 84M/0732
Ottemann, J., 84M/3127
Ottesen, R. T., 84M/4183
Ottonello, G., 84M/0985
Ouazzani-Touhami, M., 84M/4430
Oudin, E., 84M/3228, 3596
Oudin, J. L., 84M/3056
Ouyang, Z., 84M/1476
Ovchinnikov, L. N., 84M/0538, 3993
Ovchinnikova, L. V., 84M/2347
Overbeek, P. W., 84M/0295, 1509
Overeijnder, H., 84M/0185
Overloop, R. Van, 84M/3747
Overweel, C. J., 84M/4615
Ovsyannikov, A. A., 84M/4377
Owen, A. W., 84M/1982
Owen, T., 84M/3080
Owens, B., 84M/1065
Oxburgh, E. R., 84M/2867, 4294
Ozima, M., 84M/1365, 2727, 2818, 4096
Özkan, Y. Z., 84M/0257
Özlü, N., 84M/1760
Öztunali, O., 84M/3358

Paar, W. H., 84M/1172, 1924, 3233, 3249, 3878, 3902
Pacey, N. R., 84M/2966, 3763
Packham, B. de V., 84M/1994
Padang, M. Neumann van, 84M/1029
Padia, J. T., 84M/1816
Page, N. J., 84M/1688, 3903
Page, R. W., 84M/0273, 2353
Paglionico, A., 84M/0634, 3001, 3354
Pahlavanpour, B., 84M/2437, 2438
Pain, C. F., 84M/0142
Pak, E., 84M/1675, 2826, 2827
Pakhomovskiĭ, Ya. A., 84M/0841, 0887, 1931, 1934, 1937, 1940, 3241, 3254
Pal, D., 84M/3090
Pal, J. C., 84M/0713
Pálacios, C., 84M/2605, 2957, 2958
Palacios, T., 84M/2879
Palacz, Z. A., 84M/4104
Palenzona, A., 84M/0086
Pallister, J. S., 84M/2108, 2109, 3654
Palme, H., 84M/0737
Palmer, B., 84M/2712
Palmer, G. R., 84M/0232
Palmer, K., 84M/0719, 4438
Palmieri, F., 84M/1272
Pałosz, B., 84M/0207, 1408
Pamic, J., 84M/2106
Pan, J., 84M/1246
Panagos, A. G., 84M/2849
Panayiotou, A., 84M/2069, 2075, 0087
Panczner, W. D., 84M/2330, 4613
Pandalai, H. S., 84M/2824
Panggabean, H., 84M/3619
Panina, L. I., 84M/0979
Pankhurst, R. J., 84M/2354, 2815, 2869, 3555
Panno, S. V., 84M/1433
Panozzo, R., 84M/4304
Panskikh, E. A., 84M/0270
Pantazis, T. M., 84M/2086
Pantony, D. A., 84M/2430
Panyak, S. G., 84M/1711
Paor, D. G. De, 84M/1960
Papanastassiou, D. A., 84M/3116
Papike, J. J., 84M/1115, 2519, 2946, 3068
Papp, J., 84M/1629
Paquet, J., 84M/0767
Parada, C. B., 84M/1738
Paradis, S., 84M/2259
Parafiniuk, J., 84M/0868
Paraskevopoulos, G. M., 84M/2099
Pardo, E. Sebastián, 84M/3164
Pareek, H. S., 84M/4493
Parfitt, R. L., 84M/0144
Paris, J.-P., 84M/3387
Park, R. G., 84M/0010, 3635
Parker, A., 84M/0115
Parker, D. F., 84M/1016
Parker, S. C., 84M/2517, 3793
Parkhurst, D. L., 84M/0664
Parkinson, W. D., 84M/0084
Parmenter, C. M., 84M/1539
Parnell, J., 84M/0675, 1066, 1413, 2054
Parnell Jr, R. A., 84M/1521
Parrish, R. R., 84M/1219, 2360
Parrish, W., 84M/2373, 2381
Parron, C., 84M/3758
Parrot, J.-F., 84M/2093
Parry, S. J., 84M/2444, 4249
Parry, W. T., 84M/4229
Parsons, I., 84M/3173
Parthasarathy, R., 84M/2842
Parthasarathy, T. N., 84M/4457
Parthe, E., 84M/3786
Parziale, V. E., 84M/2497
Pascher, G., 84M/3599
Pascual, C., 84M/0416
Pasero, M., 84M/3795
Pasieczna, A., 84M/1758
Pasini, G., 84M/3649
Pask, J. A., 84M/4009
Passaglia, E., 84M/1866
Pasteris, J. D., 84M/0949
Pasto, A. E., 84M/2318
Patchett, J., 84M/4122
Patchett, P. J., 84M/0583, 4314
Patel, M., 84M/2744
Paterson, M. S., 84M/0344
Paterson, S. R., 84M/4303
Patrick Jr, W. H., 84M/4071
Patterson, C. C., 84M/0329, 2623, 3026
Patterson, L. E., 84M/1856
Pattrick, R. A. D., 84M/1483, 1591, 1670, 2831
Paul', R. K., 84M/0307
Paupy, A., 84M/4428
Pavlicevic, R. E., 84M/1017, 1018, 2051
Pavlishin, V. I., 84M/0170
Pavlov, G. F., 84M/0751
Pavlova, M., 84M/0801
Pavlović, R., 84M/1062
Pavlovic, Z., 84M/4480
Pavlun', N. N., 84M/2597
Pavlutskaya, V. I., 84M/4078
Pavlyuchenko, V. S., 84M/4222
Pawlikowski, M., 84M/1082, 4451
Payne, D., 84M/3726
Payne, J. G., 84M/4336
Pazdur, A., 84M/1749
Pazdur, M. F., 84M/1749
Peach, D. W., 84M/4546
Peachey, D., 84M/1812, 3034
Peacor, D. R., 84M/0796, 0891, 0896, 1927, 3121, 3231, 3234, 3235, 3242, 3244, 3811, 4291
Peale, S. J., 84M/3086
Pearce, J. A., 84M/1710, 2092, 2142, 2258
Pearson, N. J., 84M/2857
Pearton, D. D. G., 84M/2446
Peccerillo, A., 84M/0977
Pechar, F., 84M/0481, 1383, 1384, 1867
Peck, D. L., 84M/0592
Peckett, A., 84M/1601
Pécsi-Donáth, É., 84M/0815
Pedersen, B., 84M/2432
Pedersen, J. L., 84M/1434
Pedersen, S., 84M/0006
Pedersen, T. F., 84M/3946
Pedley, H. M., 84M/1078
Pedley, J. B., 84M/0337
Pedskalny, M. A., 84M/3493
Peinador Fernandes, A., 84M/1458
Pekdeger, A., 84M/1341
Pellas, P., 84M/3109
Pellerin, F. M., 84M/3753
Pellicer, M. J., 84M/3416
Pelly, I. Z., 84M/2649
Pen'kov, V. F., 84M/4174
Peña, J. A. de la, 84M/0863, 1074, 2614
Pendock, M. J., 84M/2633
Peng, T.-H., 84M/0089
Peng, Z., 84M/1871
Penick, D. A., 84M/1513
Penick Jr, D. A., 84M/1636
Penn, I. E., 84M/1991
Pennetreau, P., 84M/1270
Pe-Piper, G., 84M/0562, 2018, 4219
Percevault, M.-N., 84M/1963
Perchiazzi, N., 84M/1887
Perchuk, L. L., 84M/1712, 2643
Percival, J. A., 84M/0042, 2275
Pereira, E., 84M/2587
Perelygin, V. P., 84M/3109
Perera, L. R. K., 84M/0994
Perez, H. R., 84M/0131
Pérez del Villar, L., 84M/3172
Pérez Sirvent, C., 84M/3147, 3148
Perkins, W. G., 84M/2854
Perkins III, D., 84M/0449, 2646
Perlina, G. A., 84M/1940
Permingeat, F., 84M/3215
Perni, A., 84M/2876, 3419
Perrault, G., 84M/0758
Perrin, N. D., 84M/0127
Perron, C., 84M/3109
Perruchot, A., 84M/0690
Perry, D. L., 84M/2745
Perry Jr, W. V., 84M/1505
Perseil, E. A., 84M/1465
Persikova, L. A., 84M/1665
Persson, P.-O., 84M/0011
Pertlik, F., 84M/2545, 2549, 3850
Pertsev, N. N., 84M/2184, 2186, 3232
Peters, D. C., 84M/0241
Peters, J. J., 84M/2320
Peters, R. J., 84M/0722
Peters, T. A., 84M/2320
Peters, Tj., 84M/0463
Petersen, L. D., 84M/2337
Petersen, O. V., 84M/1835
Peterson, P. J., 84M/1525
Peterson, P. S., 84M/2954
Peterson, R. C., 84M/1379
Petit, J.-P., 84M/1085
Petot-Ervas, F., 84M/0418
Petranek, J., 84M/0263, 0807
Petrera, M., 84M/1628, 2533
Petrík, I., 84M/0564, 0966, 0967
Petrov, L. L., 84M/1665
Petrov, P. I., 84M/2212
Petrov, P. P., 84M/0976
Petrova, Ye[E]. N., 84M/1612
Petrovič, J., 84M/1244
Petrovskaya, N. V., 84M/1186
Petrucciani, C., 84M/2355, 2356
Petruk, W., 84M/3896
Petrusenko, S., 84M/0777
Petschek, A. G., 84M/2963

Pettingill, H. S., 84M/0048, 3668
Petzow, G., 84M/0379
Peucat, J. J., 84M/3636
Pevear, D. R., 84M/3776
Pezerat, H., 84M/3718
Pfannkuch, H. O., 84M/4005
Pfeffer, W., 84M/2591, 2592
Pfeifer, H., 84M/1380, 2651
Pfiffner, O. A., 84M/4320
Pharaoh, T. C., 84M/1980
Phelan, P. J., 84M/3934
Phelps, D. W., 84M/2949
Philip, G., 84M/1086, 1087
Philippitsch, R., 84M/2590
Phillips, F. M., 84M/2624, 4137
Phillips, G. N., 84M/0536, 3861
Phillips, R., 84M/0858
Phillips, W. J., 84M/4547
Phillips, W. R., 84M/3539
Philp, R. P., 84M/0676, 0681, 0685
Phinney, W. C., 84M/1149
Phipps, D. A., 84M/1519
Piaz, G. V. Dal, 84M/4106
Piboule, M., 84M/2888
Piccardo, G. B., 84M/2097, 2098, 2233
Piccarreta, G., 84M/0634, 3001, 3139, 3354, 3355
Piccirillo, E. M., 84M/1027, 2056, 3425, 4402
Pichavant, M., 84M/1555
Pickering, K. T., 84M/3471
Picot, P., 84M/3215, 3228, 3230, 4266
Pieper, G., 84M/1827
Pieri, R. De, 84M/1851
Pierrot, R., 84M/3215
Piestrzynski, A., 84M/4237
Pietzsch, C., 84M/3988
Pigage, L. C., 84M/0450
Piggott, N., 84M/0682
Pigram, C. J., 84M/3619
Piispanen, R. A., 84M/3157
Pike, J., 84M/2622
Pilipenko, A. I., 84M/2213
Pillinger, C. T., 84M/2816, 2817, 3099
Pillmore, C. L., 84M/4207
Pilot, J., 84M/3297
Piloyan, G. O., 84M/1925
Pimminger, M. I., 84M/3851
Pineau, F., 84M/4068
Pinto, A. F. Ferreira, 84M/3352, 3455, 3456
Pinzari, M., 84M/1239
Piper, J. D. A., 84M/2287, 4306, 4314
Pipino, G., 84M/2144
Piqué, A., 84M/0937
Pirajno, F., 84M/1004
Piret, P., 84M/0889, 0893, 1402, 4285, 4290
Piret-Meunier, J., 84M/0893
Piriou, B., 84M/3827
Pirogov, B. I., 84M/1875, 3198
Pisias, N., 84M/4143
Pisias, N. G., 84M/2962
Pitcher, W. S., 84M/2011, 3327
Piu, P., 84M/0181, 1309, 3728
Plakhin, Ye[E]. A., 84M/3021
Plaksenko, A. N., 84M/0830
Plant, J., 84M/2941
Plante, E. R., 84M/0478
Plastinina, M. A., 84M/0786
Platonov, A. N., 84M/0785, 4048
Platt, J. P., 84M/3310, 4302
Platt, R. G., 84M/0043, 3391, 3667
Plescia, J. B., 84M/3084
Plotnikova, L. P., 84M/1665
Plško, E., 84M/0729
Plummer, L. N., 84M/0664, 3017
Pluth, J. J., 84M/3822
Plymate, T. G., 84M/1103
Plyusnin, G. S., 84M/2864
Pochini, A., 84M/0098
Podgórski, A., 84M/1234
Podlesskii, K. K., 84M/2642
Podwysocki, M. H., 84M/0244
Poeverlein, R., 84M/2301, 2302, 3602, 4564
Pogrebnyak, Yu. F., 84M/0672
Pohl, W., 84M/2882
Poirot, J.-P., 84M/0501
Polák, S., 84M/0281
Poletaev, A. I., 84M/0286
Polezhaeva, L. I., 84M/1831, 1933, 1942
Poli, G., 84M/4107
Politov, V. K., 84M/0759
Pollack, G., 84M/3740
Pollard, D. D., 84M/1042
Pol'shin, E. V., 84M/0785
Polve, M., 84M/4148
Pontenagel, W. M. G. F., 84M/1353
Poole, A. B., 84M/1169
Pooley, D., 84M/0210
Popivnyak, I. V., 84M/2554, 2791, 4082
Popoff, M., 84M/1192
Popov, P., 84M/1489
Poppe, L. J., 84M/1539
Poppi, L., 84M/2477
Porada, H., 84M/3277-3280, 3282, 3284, 3295
Porcellini, G., 84M/4566
Porshnev, N. V., 84M/0446, 1801
Porto, M. J. Fernandes, 84M/2474
Portugal Ferreira, M., 84M/3351
Pospelova, L. N., 84M/0953, 3189
Possolo, A., 84M/1958
Post, B., 84M/2381
Post, J. E., 84M/1577
Postaire, B., 84M/3636
Postma, D., 84M/0598
Posukhova, T. V., 84M/0231
Potebnya, M. T., 84M/1852
Potenza, B. Bianchi, 84M/3135
Potgieter, R., 84M/3314
Potter, P. E., 84M/4469
Potts, G. J., 84M/1970
Potts, P. J., 84M/0708, 3067, 4106
Pouclet, A., 84M/2888
Poulsen, K., 84M/1168
Pounev, L. I., 84M/1110
Poustie, A., 84M/1448
Povarennykh, A. S., 84M/1931, 3254
Povondra, P., 84M/1918
Powell, C. McA., 84M/3693
Powell, D., 84M/1121
Powell, R., 84M/0360, 0848, 1572, 1590, 2242, 2644, 2733, 4094, 4520
Pozas, J. M. Martín, 84M/2407, 2702
Prabju, M. K., 84M/4156
Praekelt, H. E., 84M/4326
Prahl, F. G., 84M/0326
Prasaad, U., 84M/2114
Prasad, A. K., 84M/3506
Prasad, N., 84M/2931
Prasolov, E. M., 84M/0707
Prato, R., 84M/1457
Pratt, M. W., 84M/2629
Preat, A., 84M/1684
Predecki, P. K., 84M/2449
Preisinger, A., 84M/2545
Presnall, D. C., 84M/4006
Prestvik, T., 84M/2124, 3523
Prévost-Czeskleba, H., 84M/3838
Prévôt, L., 84M/2709
Prewitt, C. T., 84M/0169, 2519, 2538, 3823, 3842
Price, B. J., 84M/4135
Price, D. C., 84M/4011
Price, G. D., 84M/2494, 3793, 3805
Price, L. C., 84M/1107
Price, N. B, 84M/3937
Price, R. A., 84M/4337
Price, R. C., 84M/0579, 1046, 4114
Pride, C., 84M/1009
Priem, H. N. A., 84M/0009, 1205
Prieto, M., 84M/1074
Primmer, T. J., 84M/3525
Pringle, L. R., 84M/4320
Prins, J. F., 84M/0343
Prinz, M., 84M/3110
Prinzhoffer, A., 84M/2136
Pritchard, R. G., 84M/2155
Prochaska, W., 84M/3143
Prock, G., 84M/3600
Prodehl, C., 84M/3274, 3294
Prokhorov, V. I., 84M/3021
Prokhorov, V. S., 84M/2899
Prokof'yev, S. S., 84M/0601
Propach, G., 84M/4319
Proshko, V. Ya., 84M/2283
Prosi, F., 84M/3944
Prost, G., 84M/0240
Prost, R., 84M/1306
Protz, R., 84M/0143
Pruitt, J. D., 84M/0696
Pryce, M. W., 84M/3239
Pshenichkin, A. Ya., 84M/0525
Ptasiewicz-Bak, H., 84M/0200
Puchelt, H., 84M/2172, 2195
Puchkov, Ye[E]. V., 84M/1420
Puech, J., 84M/0440
Pugacheva, I. P., 84M/0287
Puglisi, D., 84M/1127
Puglisi, G., 84M/2883, 3353
Puhan, D., 84M/3286
Pulec, M., 84M/0253
Pullen, J. H., 84M/2437
Pummery, F. C., 84M/2978
Purdy, G. M., 84M/2081
Purnachandra Rao, V., 84M/1333
Purnell, J. H., 84M/1263
Purtscheller, F., 84M/4215, 4489
Puteanus, D., 84M/2563
Putilina, V. S., 84M/2672
Putiš, M., 84M/1130
Putnam, P. E., 84M/3493
Putnis, A., 84M/0452, 3805
Puziewicz, J., 84M/0974
Pyatenko, Yu. A., 84M/2498
Pye, K., 84M/0064, 2480, 3486
Pyrros, N. P., 84M/2376
Pystin, A. M., 84M/3540
Pyzhov, V. Kh., 84M/0361

Qi, Z., 84M/1746
Qiao, Z., 84M/1474
Qu, J., 84M/1746
Qu, Y., 84M/2607
Quarton, M., 84M/3718
Querré, G., 84M/3637
Quinn, J. G., 84M/0691
Quintana, P., 84M/0413
Quintens, I., 84M/2771
Quirk, M. M., 84M/3048
Quirke, J. M. E., 84M/0684

Raab, M., 84M/0656
Raade, G., 84M/0773, 3238
Raase, P., 84M/0769
Rabenhorst, M. C., 84M/3683, 3775
Rabien, A., 84M/2210
Rabinovitch, M., 84M/2136
Rabinowicz, M., 84M/4425
Rabitti, S., 84M/1077
Raczek, I., 84M/2340, 3650
Radakrishna, T., 84M/1727
Radtke, A. S., 84M/3977
Raedeke, L. D., 84M/4398
Raeside, R. P., 84M/0946, 1148, 2045
Rager, H., 84M/4197
Raghavan, T. N. V., 84M/0066
Ragland, P. C., 84M/2909
Ragnarsdottir, K. V., 84M/0475
Raha, P. K., 84M/2219
Rahaman, M. A., 84M/2889
Råheim, A., 84M/1204
Rahman, M., 84M/0704, 1792
Rahn, P. H., 84M/3017
Rai, C. S., 84M/0457
Rai, H., 84M/3460
Raines, G., 84M/0668
Raisbeck, G. M., 84M/3630
Raiswell, R., 84M/0422, 0693
Raith, M., 84M/0769

Rajagopalan, G., 83M/0025
Rajan, R. S., 84M/3106
Rajashekharappa, M. H., 84M/3375
Rajlich, P., 84M/1490
Raju, R. D., 84M/3590
Raju, T. P. Sundara, 84M/4620
Rama, 84M/4089
Ramados, K., 84M/2422
Ramakrishnan, M., 84M/2346, 3655
Ramanamurthy, M. V., 84M/0666
Rambaldi, E. R., 84M/3106
Ramendik, G. I., 84M/2891
Ramik, R. A., 84M/0796, 1915
Rammlmair, D., 84M/4489
Ramos, J. M. Farinha, 84M/3036
Ramos, V. A., 84M/3326, 4347
Rampino, M. R., 84M/2478
Rampoldi, R., 84M/3422
Ramsay, D. M., 84M/1980
Ramsden, A. R., 84M/1097
Ramson, M., 84M/3503
Rancon, J. P., 84M/1840
Randaccio, L., 84M/1385
Randall, B. A. O., 84M/1255
Ranganath, N., 84M/0575
Range, K.-J., 84M/0426
Rangin, C., 84M/2150
Rank, R., 84M/2298
Rankin, A. H., 84M/1808
Rankin, P. C., 84M/2118
Ranst, E. Van, 84M/1325, 2208
Rao, B. Krishna, 84M/3883
Rao, B. V., 84M/1507
Rao, C. N., 84M/3772
Rao, G. V. U., 84M/0264, 0835, 1469, 1470
Rao, J. S. R. Krishna, 84M/0528
Rao, N. Krishna, 84M/0835, 1469, 1470
Rao, L. A. K., 84M/3481
Rao, M. N., 84M/1816
Rao, V. Purnachandra, 84M/1333
Rao, Y. K., 84M/2634
Raptis, S. E., 84M/0721
Raškova, D. M., 84M/0791, 0792, 1417
Rasmy, M., 84M/1744
Rastsvetaeva, R. K., 84M/0199, 1397
Ratcliff, J., 84M/2386
Rath, R., 84M/1231, 1888
Ratiev, L. A., 84M/0834
Ratkin, V. V., 84M/4375
Ratner-Zohar, Y., 84M/3712
Rattey, P. R., 84M/3453
Ravindra Kumar, G. R., 84M/4496
Rayment, T., 84M/1264
Raymond, L. A., 84M/4442
Rayner, H. H., 84M/4413
Raynor, J. B., 84M/4274
Razdan, M. L., 84M/2113
Rea, D. K., 84M/2336
Read, A. J., 84M/4278
Read, D., 84M/2229, 3472
Read, P. G., 84M/0503, 4060
Reaves, G. A., 84M/3938, 3939
Reay, A., 84M/3389
Reck, B. H., 84M/2649
Reddy, K. P. R., 84M/2663
Reddy, M. Narsimha, 84M/3179
Reeburgh, W. S., 84M/0595
Reed, B. I., 84M/2037
Reed, J. F., 84M/3494
Reed, M. H., 84M/0230
Reed, S. J. B., 84M/1560, 3107
Reeder, R. J., 84M/0870, 1252, 1398, 1399, 1908
Reedjik, J., 84M/0387
Reedy, M. W. El, 84M/0984
Rees, C. E., 84M/0730, 2697
Reeve, E. J., 84M/1481
Reeves, T. J., 84M/3347
Reid, A. M., 84M/0574
Reid, D. F., 84M/1534
Reid, D. L., 84M/4117
Reid, I., 84M/1162
Reid, J. S., 84M/0189
Reid Jr, J. B., 84M/3396
Reidel, S. P., 84M/4399
Reimer, T. O., 84M/2217, 2570
Reimold, W. U., 84M/4190
Reinen, D., 84M/0156
Renard, D., 84M/1587
Renard, M., 84M/2977
Renisbakken, A., 84M/4486
Requejo, A. G., 84M/0691
Resende, J. P., 84M/1920
Respaut, J. P., 84M/0016
Rettig, S. L., 84M/3723
Rettighieri, M., 84M/1833, 2235
Revuelta, M. A. Bustillo, 84M/3473, 3474
Rex, D. C., 84M/1202
Reyes, E., 84M/0098, 2474
Reymer, A. P. S., 84M/4481
Reynolds, R. C., 84M/2478
Reynolds, R. L., 84M/1699
Reynolds, R. T., 84M/3086
Reynolds, S., 84M/4471
Reynolds Jr, R. C., 84M/1291
Rhodes, J. M., 84M/2191
Ribakov, V. G., 84M/0268
Ribbe, P. H., 84M/3120, 3791
Ribeiro, A., 84M/1958
Rice, C. J., 84M/3409
Rice, C. M., 84M/1482
Rice, J. M., 84M/1771
Richardson, J. M. G., 84M/1913
Richardson, M. J., 84M/3491
Richardson, S. H., 84M/4117
Richebois, G., 84M/2977
Richet, P., 84M/4010
Richter, E., 84M/4209
Richter, P., 84M/4151
Richter, W., 84M/4476
Rickard, D. T., 84M/2706, 3008
Rickard, M. J., 84M/4462
Rickard, R. S., 84M/0885
Ricketts, B. D., 84M/1102
Ridge, J. D., 84M/0221, 3692
Řídkošil, T., 84M/0812, 0856
Ridley, W. I., 84M/2120
Ridout, P. S., 84M/2844
Ried, H., 84M/3804
Rieder, M., 84M/1838
Riedmüller, G., 84M/2489
Ries, A. C., 84M/1046, 4328
Rietmeijer, F. J. M., 84M/1615
Rigby, D., 84M/2974
Rightmire, C. T., 84M/3017
Rijpstra, W. I. C., 84M/0678
Rikhvanov, L. P., 84M/0525
Riley Jr, J. E., 84M/2409
Rimmer, S. M., 84M/1334, 4482
Rimsaite, J., 84M/2924
Rimstidt, J. D., 84M/3992
Rindsberger, M., 84M/1776
Ring, E. J., 84M/3061
Ringsrud, R., 84M/4046
Ripley, E. M., 84M/1507, 1698
Risacher, F., 84M/0130
Rison, W., 84M/3439
Ristori, G. G., 84M/3749
Rita, F., 84M/1027
Ritchie, J. D., 84M/3341
Rivalenti, G., 84M/3195
Rivers, E. D., 84M/0073
Rivers, M. L., 84M/1558, 2664
Rivers, T., 84M/0041, 3557
Rixon, L. K., 84M/4462
Robbin, D. M., 84M/1105
Robbins, C. R., 84M/2387
Roberson, C. E., 84M/3999
Robert, J.-L., 84M/1249, 1624
Robert, M., 84M/0468
Robért, R. V. D., 84M/2428
Roberts, A. C., 84M/0882, 1915
Roberts, A. M., 84M/1986, 3305
Roberts, B., 84M/3370
Roberts, D. E., 84M/1501, 1983, 2127, 4427, 4486
Roberts, G. M., 84M/3016
Roberts, R. B., 84M/4533
Roberts, R. J., 84M/3916
Roberts, W. L., 84M/1917, 3235
Robertson, A. H. F., 84M/0936, 2068
Robertson, B. T., 84M/0890
Robertson, P. B., 84M/1820
Robineau, B., 84M/1191
Robins, B., 84M/0617
Robinson, A., 84M/2774
Robinson, B. W., 84M/1232
Robinson, N. D., 84M/0091
Robinson, P., 84M/2244
Robinson, P. T., 84M/2155, 2162
Robinson Jr, G. R., 84M/0334, 0336
Rocci, G., 84M/2071, 2093, 3459
Rocheleau, M., 84M/1998, 1999
Rochette, P., 84M/4316
Rock, B. N., 84M/0238
Rock, N. M. S., 84M/0778, 1208, 3497
Rodda, P., 84M/4622
Roddick, J. C. M., 84M/0001, 0008, 1659
Roden, M. K., 84M/4100
Rodgers, K. A., 84M/1740, 1914
Rodrigues, B., 84M/2879
Rodriguez, A., 84M/3705
Rodríguez Badiola, E., 84M/3126, 3418
Rodríguez Clemente, R., 84M/0377, 0869
Rodríguez Gallego, M., 84M/3172
Roe, K. K., 84M/0612, 3666
Roedder, E., 84M/0359, 3436
Roeder, D. H., 84M/2112
Roelandts, I., 84M/0709, 0710, 2440
Roermund, H. L. M. Van, 84M/3514, 3516
Roex, A. P. Le, 84M/0574, 1730
Rogachev, D. L., 84M/3254
Roganov, G. V., 84M/0305
Rogers, D. E. C., 84M/0725
Rogerson, R., 84M/0944
Röhrs, J., 84M/3279
Rojkovič, I., 84M/0252, 0836
Rojkovičová, Ľ., 84M/0254
Romanchev, B. P., 84M/2891
Romanenko, I. M., 84M/3505
Romankevich, Ye[E]. A., 84M/3055
Romer, D. M., 84M/1445
Romm, G. M., 84M/1156
Rondeel, H. E., 84M/4298
Rønsbo, J. G., 84M/1835
Roobal, M. J., 84M/1038, 1044, 4419
Roques, H., 84M/0383
Rösch, H., 84M/2175
Rose, H. J., 84M/4064
Rose, W. I., 84M/4419
Rosenbauer, R. J., 84M/0390, 3977
Rosenblum, S., 84M/3222, 3237
Rosencrantz, E., 84M/1054
Rosendahl, B. P., 84M/3615
Roser, B., 84M/0719, 0720
Rösler, H. J., 84M/3297
Rosmalen, G. M. van, 84M/0387, 0428
Rosman, K. J. R., 84M/0033, 0723, 3664
Ross, C. A. M., 84M/3940
Ross, D. K., 84M/1265
Ross, D. L., 84M/0308
Ross, G. J., 84M/0143, 0145, 0438, 3716
Ross, G. M., 84M/2223
Ross, J. D., 84M/3931
Ross, M. E., 84M/1013
Rossi, A., 84M/3195
Rossi, G., 84M/1839, 3145
Rossman, G. R., 84M/0186
Rossovskiĭ, L. N., 84M/0843

Rossy, M., 84M/3645
Rostschina, I. A., 84M/2194
Roth, C. B., 84M/0059
Roth, R. S., 84M/0408
Rothbard, D., 84M/1076
Rothery, D. A., 84M/4429
Rottura, A., 84M/0634, 2883, 3001, 3353, 3354, 3356
Rouhart, A., 84M/1897
Rouse, J. E., 84M/2817
Rousseau, D., 84M/3665
Routhier, P., 84M/2136
Rowan, L. C., 84M/0238
Rowe Jr, J. J., 84M/4418
Rowlands, A. S., 84M/3454
Roy, A., 84M/1806
Roy, B. N., 84M/1336
Roy, D. M., 84M/2606, 3932
Roy, D.-W., 84M/1997
Roy, G. L. De, 84M/2518
Roy, J. L., 84M/1161
Roy, Y., 84M/0831
Rozendaal, A., 84M/1677
Rozhdestvenskaya, I. V., 84M/0165, 0170, 1304, 4038
Rozinova, E. L., 84M/0798
Rubenach, M. J., 84M/2133
Rubie, D. C., 84M/0620
Rubin, A. E., 84M/1814, 3092, 4195
Rubin, M., 84M/3017
Rudashevskiĭ, N. S., 84M/0818, 1928, 3330
Rudenko, A. P., 84M/2679, 3966
Rudenko, V. N., 84M/4038
Rudnitskiy, V. F., 84M/3881, 0266
Ruhlmann, F., 84M/3230
Ruiz, J., 84M/3862
Ruiz, J. Lopez, 84M/3154, 3418
Ruiz, J. Torres, 84M/3500
Rullkötter, J., 84M/0700, 4175
Rumble III, D., 84M/0625, 1546, 1547, 1770, 4157
Rumvegeri, B. T., 84M/0988
Rumyantseva, E. V., 84M/0881
Runcorn, S. K., 84M/3074
Rundle, C. C., 84M/3641
Rundqvist, T. V., 84M/3221
Ruplinger, P. K., 84M/0490
Rushton, A. W. A., 84M/2066
Rusňák, D., 84M/0301
Russ, J. C., 84M/2393
Russell, D. G., 84M/0448
Russell, G. M., 84M/0065
Russell, G. S., 84M/1220
Russell, J. D., 84M/1936, 2467, 2468, 2546, 3727
Russell, M. J., 84M/0249, 1437, 1453, 1670, 2831, 4084
Russell, M., 84M/0144
Russell, P. C., 84M/4418
Russell, S. B., 84M/2408
Rutland, R. W. R., 84M/4115
Rutter, E. H., 84M/0341
Rűtzel, H., 84M/0646
Ruud, C. O., 84M/2561
Růžek, J., 84M/1627
Ruzicka, V., 84M/2940
Ryabchikov, I. D., 84M/2013, 4022
Ryabov, I. D., 84M/1395
Ryabov, V. V., 84M/0783
Ryakhovskaya, S. K., 84M/3985
Ryan, P. D., 84M/0960, 3454
Rybach, L., 84M/0558, 0559
Rydzewski, A., 84M/4478
Rye, D. M., 84M/4088
Rye, R. O., 84M/1671, 1699, 3916, 3929
Ryghaug, P., 84M/1807
Ryka, W., 84M/0973
Rykl, D., 84M/0481, 1383, 1384

Saager, R., 84M/0235, 2128, 2783, 3169, 3860
Saalfeld, H., 84M/2724
Sabag, S. F., 84M/1861
Sabarís, L. Solé, 84M/0926
Sabatino, B. Di, 84M/2234
Sabbioni, C., 84M/1520
Sabelli, C., 84M/2695, 3183, 4568
Sabina, A. P., 84M/3696, 4605
Saboia, L. A., 84M/2062
Sacca, C., 84M/2594
Sack, R. O., 84M/1113, 1114, 1558, 2664, 4019
Sacks, I. S., 84M/3402
Sadanaga, R., 84M/0191
Sadasivan, S., 84M/3935
Sadiklar, M. B., 84M/0259
Sadler, P. M., 84M/3260, 3261
Sadowski, R., 84M/0277
Sadvakasov, R. T., 84M/0286
Saeed, L., 84M/0604
Safonov, A. M., 84M/0790
Safonov, Yu. G., 84M/3883
Safronov, A. N., 84M/2539
Saf'yanov, Yu. N., 84M/2512
Saikia, M. M., 84M/1048
Saini, H. S., 83M/0025, 4234
Saito, A., 84M/2708
Saito, Y., 84M/0195
Sakai, H., 84M/3953
Sakamoto, T., 84M/0124, 1619
Sakharov, B. A., 84M/1885, 2165, 3836
Sakharova, M. S., 84M/0231, 3985
Sakurai, K., 84M/1901, 4586
Salansky, N. M., 84M/2535
Saleeby, J. B., 84M/0948
Salem, A. K. A., 84M/2886
Salem, M. A., 84M/2886
Saliba, S., 84M/1393
Salisbury, M. H., 84M/2162, 3300
Sallomy, J., 84M/0331
Salminen, R., 84M/0671
Salter, P. F., 84M/0312, 0320, 3971
Salters, V. J. M., 84M/0561
Saltzman, E., 84M/2180
Saltzman, E. S., 84M/2985
Šamajová, E., 84M/0118, 0119, 0772, 0814
Sameshima, T., 84M/3387, 4220
Samoylov, V. S., 84M/2864, 4079
Samson, I. M., 84M/1437, 1453, 3640
Samuel, M. D., 84M/0122
Šanc, I., 84M/1838
Sancetta, C., 84M/2176
Šanov, V., 84M/0426
Sand, L. B., 84M/2755
Sandberg, P. A., 84M/3469
Sanders, R. W., 84M/2399
Sanderson, D. J., 84M/3453
Sando, T. W., 84M/0587
Sandomirskaya, S. M., 84M/4276
Sandstad, J. S., 84M/3900
Sandwall, J., 84M/0628
Sangameshwar, S. R., 84M/2558
Sankar Das, M., 84M/0724, 2842
Sano, Y., 84M/2798
Sanov, V., 84M/0426
Santacroce, R., 84M/0985
Santallier, D. S., 84M/3513
Santisteban, C., 84M/1075
Santos, H. de Souza, 84M/2095, 4027
Santos Oliveira, J. M., 84M/3036, 3037
Santosh, M., 84M/2895, 3377, 3378
Santschi, P. H., 84M/0321
Sanz, J., 84M/3807
Sanz de Galdeano, C., 84M/3500, 3919
Saracoglu, N., 84M/3898
Saraiva, A. L. Almeida, 84M/3582
Sarcia, J. A., 84M/0223
Sarda, P., 84M/2913
Sardela, I. A., 84M/4248
Sarkar, S. N., 84M/0942
Sarna-Wojcicki, A. M., 84M/4418
Sarp, H., 84M/3243
Sartori, F., 84M/2483
Sasaki, N., 84M/4267
Sasaki, S., 84M/1362, 1538, 2538
Sasamoto, T., 84M/0417
Sass, E., 84M/1089, 3994
Sass, J. H., 84M/4549
Sastre, M. A. Malo, 84M/2704
Sastry, A. V. R., 84M/3428
Sastry, B. B. S., 84M/0528
Sata, T., 84M/0417
Satir, M., 84M/3648
Sato, K., 84M/3905
Sato, M., 84M/0179, 1275, 1276, 1370, 4199
Sato, S., 84M/0195
Saunders, A. D., 84M/2085, 2157, 2808, 4123
Sauniac, S., 84M/0638, 1974
Sauter, P. C. C., 84M/2254
Savage, J. F., 84M/2256
Saveliev, B. V., 84M/2167
Savelli, C., 84M/3420
Savenko, V. S., 84M/4000
Savin, W., 84M/3090
Savitskiy, A. V., 84M/3360
Savva, N. E., 84M/0751
Sawal, V. K., 84M/3454
Sawamoto, H., 84M/0339
Sawaoka, A., 84M/2280
Sawhney, B. L., 84M/0112
Sawka, W. N., 84M/4075
Sawlan, J. J., 84M/1781
Sawyer, E. W., 84M/2043, 4513
Saxena, M. N., 84M/3374
Saxena, S. K., 84M/1566, 1574, 1837, 2454, 2638, 2645, 4008
Saxov, S., 84M/1168
Sayles, F. L., 84M/1757
Scarfe, C. M., 84M/1563, 3981
Scarratt, K., 84M/2759
Scatena-Wachel, D. E., 84M/3203
Ščavnicar, S., 84M/0192
Schaefer, M. W., 84M/2502
Schaeffer, R., 84M/1672
Schafer, G. F., 84M/2550
Schäfer, H., 84M/1578
Schäfer, W., 84M/4047
Scharbert, H. G., 84M/2884, 3519
Schärer, U., 84M/0026, 3657, 3658
Schau, M., 84M/2776
Schaub, W. J., 84M/1904
Schebesta, K., 84M/2303, 3601
Schejbal-Chwastek, M., 84M/0318
Schenck, P. A., 84M/0678, 0701
Schenk, D., 84M/1341
Schenk, V., 84M/3538
Scheps, V., 84M/1761
Schery, S. D., 84M/2963
Schevtchenko, A. Ya., 84M/3464
Schidlowski, M., 84M/0602, 2787, 2788
Schiffman, P., 84M/0466, 1611, 3510, 4441
Schilling, J.-G., 84M/2866, 2893, 2915, 4118, 4426, 4103
Schledewitz, D. C. P., 84M/2935
Schleicher, H., 84M/2340, 3650
Schlichting, J., 84M/0347, 4527
Schloessin, H. H., 84M/4530
Schlögl, R., 84M/1264
Schmalzried, H., 84M/1605
Schmeltzer, H., 84M/1176
Schmetzer, K., 84M/0487, 0493, 0496, 0497, 1639, 1641, 1645, 1649, 1650, 2764, 3218, 4050, 4053, 4054
Schmidt, D. L., 84M/0991
Schmidt, P. W., 84M/2974
Schmidt, R. G., 84M/0673
Schmincke, H.-U., 84M/0015, 2153, 2155, 2162, 2881, 3699, 4433
Schmucker, U., 84M/3272
Schmutz, L., 84M/1178
Schneer, C. J., 84M/0155
Schneider, A., 84M/3281, 3311, 4152

Schneider, H., 84M/3960
Schneider, H.-J., 84M/1810
Schneider, J., 84M/2618
Schnepfe, M. M., 84M/2983
Schnering, H. G. von, 84M/3841
Schnitzer, M., 84M/3050
Schnorrer-Köhler, G., 84M/1173, 3246
Schoch, A. E., 84M/1905, 4326
Schoell, M., 84M/0706
Schoer, J., 84M/3743
Schofield, K., 84M/1064
Schomburg, J., 84M/0116, 3922
Schönfeld, B., 84M/0193
Schönwandt, H. K., 84M/0279
Schoonheydt, R. A., 84M/3747
Schoonmaker, J., 84M/1910
Schopf, J. W., 84M/2338
Schorin, H., 84M/0711
Schorr, T., 84M/3598
Schott, J., 84M/0462
Schotterer, U., 84M/0652
Schoumacher, C., 84M/1897
Schrader, E. L., 84M/2171
Schramm, C. M., 84M/2497
Schramm, D. N., 84M/3082
Schramm, L. L., 84M/3706
Schrank, A., 84M/2959
Schreiber, D. K., 84M/1782
Schreyer, W., 84M/0463, 0883, 2721, 3136
Schröcke, H., 84M/0420
Schröder, H. G., 84M/2618
Schroll, E., 84M/1675, 2826, 2827
Schrön, W., 84M/0518
Schubert, A., 84M/0138
Schubnel, H.-J., 84M/3215
Schulte, C. W., 84M/2408
Schultz, L. G., 84M/1328
Schultz, P. H., 84M/3073
Schulz, H., 84M/0447
Schulz, O., 84M/1675, 2826, 3877
Schulz-Dobrick, B., 84M/3265
Schulze, D. G., 84M/4256
Schulze, D. J., 84M/4381
Schulze, W. A., 84M/3809
Schumann, D., 84M/2151
Schumm, S. A., 84M/1020
Schuppli, P. A., 84M/3716
Schutz, W., 84M/1810
Schwab, A. P., 84M/0095, 0096
Schwaighofer, B., 84M/2489
Schwarcz, H. P., 84M/4127
Schwartz, A. W., 84M/2782
Schwartz, M. O., 84M/1700
Schweickert, R. A., 84M/3322
Schwerdtner, W. M., 84M/1973, 3321, 4511
Schwertmann, U., 84M/0146, 0187, 1294, 2690, 3773, 3990
Scordari, F., 84M/1396
Scortecci, P. B., 84M/4567
Scott, B. J., 84M/1037
Scott, D. C., 84M/2769
Scott, M. R., 84M/0320
Scott, P. W., 84M/4355
Scott, S. D., 84M/0851, 4092
Seabra[e] Barros, J., 84M/3066
Seal, M., 84M/2816, 2817
Searle, D. L., 84M/2069
Searle, M. J., 84M/1575
Sebagenzi, M. N., 84M/2058
Sebastian Pardo, E., 84M/3164
Secher, K., 84M/1202, 2564
Segal, D. B., 84M/0244, 0246
Segeth, K., 84M/4545
Segl, M., 84M/2563
Seguin, M. K., 84M/2000
Seidemann, D. E., 84M/1497
Seifert, F., 84M/4032
Seifert, F. A., 84M/2516, 2666
Seifert, W. K., 84M/3051
Sekhar, D. M. R., 84M/1526
Seki, Y., 84M/0126
Sekine, T., 84M/4007
Self, S., 84M/1044
Selin, P. F., 84M/0285
Sellevoll, M. A., 84M/2335
Selverstone, J., 84M/1573, 3565, 4484, 4490
Semenenko, V. P., 84M/0744
Seménov, E. I., 84M/0894
Semenova, T. F., 84M/0170, 1304
Sen, G., 84M/2027, 4006
Sen, S. K., 84M/2435
Şengor, A. M. Celâl, 84M/1955
Sengupta, S., 84M/1954, 4111
Senkayi, A. L., 84M/1335
Serdyuchenko, D. P., 84M/0771, 2513
Serralheiro, A., 84M/2879
Serrano, F. Arrese, 84M/2613
Serrano, J. R., 84M/1458
Serratosa, J. M., 84M/3807
Serri, G., 84M/2096, 2097
Serry, M. A., 84M/1565
Setterfield, T., 84M/3915
Seufert, H. M., 84M/4095
Seward, T. M., 84M/4001
Shackleton, N. J., 84M/3023
Shackleton, R. M., 84M/1046, 4328
Shaddad, M. Z., 84M/0986
Shadskiy, I. P., 84M/3055
Shafiqullah, M., 84M/0219
Shafranovskiĭ, G. I., 84M/2534
Shafranovsky, I. I., 84M/0150, 0827
Shakur, M. A., 84M/2832
Shamshina, E. A., 84M/0981
Shan, H. C., 84M/2436
Shanbhag, P. M., 84M/2708
Shangguan, Z., 84M/2823
Shanks III, W. C., 84M/3927
Shannon, D. M., 84M/2323, 2326
Shapenko, V. V., 84M/0269, 4375
Shaposhnikov, A. A., 84M/3847
Sharapov, V. N., 84M/3366
Sharaskin, A. Ya., 84M/2117, 2194
Sharkin, O. P., 84M/1846
Sharkina, E. V., 84M/0786
Sharkov, E. V., 84M/3141
Sharma, N. K., 84M/3374
Sharma, O. P., 84M/4234
Sharma, P., 84M/4089
Sharma, P. K., 84M/4539
Sharma, R., 84M/1332
Sharma, R. S., 84M/3546, 3548
Sharma, S. K., 84M/0457, 2527
Sharp, J. H., 84M/2743
Sharp, N. E., 84M/3701
Sharp, W. N., 84M/1882
Sharpe, M. R., 84M/2665, 3982, 3984
Shaw, H. F., 84M/0797
Shaw, S. E., 84M/3661
Shayan, A., 84M/0137
Shchegoleva, T. M., 84M/3845
Shcherbak, N. P., 84M/0522
Shcherbakova, M. Ya., 84M/3814
Shearer, C. K., 84M/3068
Shedd, K. B., 84M/0310
Shelton, A. W., 84M/2070
Shelton, K. L., 84M/0545, 1497, 4088
Shemesh, A., 84M/2840
Shen, B., 84M/4211
Shen, G. T., 84M/2630
Shen, J., 84M/2508, 2514, 3798, 3852
Shen, L., 84M/3485
Shen, P., 84M/0406
Shen, X.-J., 84M/3592, 4550
Shenck, C. V., 84M/1315
Sheng, C., 84M/3625
Sheng, Z., 84M/3689
Shepherd, T. J., 84M/1030, 1674, 1774, 2369
Sheplev, V. S., 84M/1112
Sheppard, R. A., 84M/0813
Sheppard, S. M. F., 84M/0630, 4025
Sheraton, J. W., 84M/3004, 4116
Sheridan, M. F., 84M/2047, 4404
Sherry, R. A., 84M/1480
Sherstobitova, L. A., 84M/1342
Shervais, J. W., 84M/3069
Sherwood, M., 84M/1530
Shestakova, O. Ye[E]., 84M/4263
Shestokov, A. V., 84M/0790
Shevaleevsky, I. D., 84M/0750
Shevchenko, A. Ya., 84M/2164, 2182
Sheymovich, V. S., 84M/1713
Shi, Y., 84M/3910
Shibakusa, H., 84M/3146
Shibasaki, Y., 84M/2472, 3737
Shih, C.-Y., 84M/3069
Shilo, N. A., 84M/3985
Shimada, N., 84M/1902
Shimamura, T., 84M/0747
Shimarzu, M., 84M/4390
Shimazu, M., 84M/2689
Shimizu, H., 84M/4196
Shimizu, N., 84M/4017
Shimoda, S., 84M/1280, 1344
Shimoyama, A., 84M/2470
Shimozuru, D., 84M/1040
Shindo, H., 84M/4171
Shindo, I., 84M/1643
Shinn, E. A., 84M/1061, 1105
Shinno, I., 84M/3119, 4231
Shinoda, S., 84M/1619
Shiozaki, H., 84M/3002
Shipley, T. H., 84M/2337
Shipova, G. S., 84M/0190
Shirley, D. N., 84M/1813
Shironina, T. V., 84M/3847
Shirozu, H., 84M/0174
Shirvington, P. J., 84M/0323
Shklyanka, V. M., 84M/0862
Shlayen, Zh. M., 84M/0430
Shlezinger, A. Ye[E]., 84M/2213
Shlyapnikov, D. S., 84M/0435
Shmidt, A. I., 84M/2022
Shmulovich, K. I., 84M/1548
Shmyakin, B. M., 84M/0992
Shoemaker, E. M., 84M/0753
Shoji, S., 84M/0110
Shoji, T., 84M/2729
Shokhina, O. I., 84M/1421
Sholkovitz, E. R., 84M/2630, 3019
Shtengelov, Ye[E]., 84M/4410
Shterenberg, L. E., 84M/1885
Shtern, E. K., 84M/0435
Shturman, V. L., 84M/2679
Shukla, B. D., 84M/1468
Shukla, V., 84M/2225
Shukolyuko, Yu. A., 84M/0733
Shuman, L. M., 84M/1284
Shumskaya, N. I., 84M/1928, 4265
Shuriga, T. N., 84M/0171, 3808, 3810
Shutov, B. S., 84M/2900
Shvartsev, S. L., 84M/4159
Shvedenkov, G. Yu., 84M/0467, 0471
Shvedenkova, S. V., 84M/0467, 0471
Sibson, R. H., 84M/2286
Siddans, A. W. B., 84M/1975
Sidorenko, A. V., 84M/0903
Siebert, L., 84M/3407
Siegel, D. I., 84M/4005
Siegl, K., 84M/0970
Siegmann, E., 84M/3250
Siegrist, A. W., 84M/0669
Siemens, R. E., 84M/2561
Siena, F., 84M/0963, 2050, 3195
Sigal, J., 84M/3645
Sigalas, I., 84M/4543
Sigurdsson, H., 84M/4419
Silber, C. C., 84M/2983
Silberman, M. L., 84M/0547
Sillitoe, R. H., 84M/3917
Sills, J. D., 84M/3537
Silva, L. C., 84M/3417
Silver, L. A., 84M/2528
Silver, L. T., 84M/0593
Silverman, A. J., 84M/2046
Simiczyjew, P., 84M/4253
Simkin, T., 84M/3407
Simmons, E. C., 84M/2008
Simmons, G. C., 84M/3867

Simmons, W. B., 84M/1927, 3234, 4291
Simões, M. C., 84M/3036, 3545
Simon, B., 84M/1192
Simon, F. O., 84M/2983
Simon, M., 84M/4433
Simon, O. J., 84M/3310
Simon, S. B., 84M/3068
Simonds, C. H., 84M/2006
Simonov, M. A., 84M/0204, 3794
Simonová, L. S., 84M/4377
Simons, B., 84M/0454, 2527
Simony, P. S., 84M/0946
Simova, F. G., 84M/0756
Simova, M., 84M/0772, 1129
Simpson, C., 84M/0932, 3304
Simpson, E. L., 84M/4232
Simpson, P. R., 84M/2941
Singer, D. A., 84M/3903
Singh, A. K., 84M/1468
Singh, B., 84M/2114
Singh, D., 84M/3526
Singh, D. C. T., 84M/3701
Singh, J. P., 84M/3590
Singh, K. N., 84M/1028
Singh, R. N., 84M/2143
Singhvi, A. K., 84M/3576
Sinha, A. K., 84M/3668
Sinha, A. Krishna, 84M/2918
Sinha, R. N. P., 84M/0831
Sinha-Roy, S., 84M/1727, 4496, 4497
Sinigoi, S., 84M/0963, 3195
Sipos, L., 84M/0646
Sirianni, A. F., 84M/2383
Sirvent, C. Perez, 84M/3147, 3148
Sissons, J. B., 84M/0920
Sivaprakash, C., 84M/2267
Sivell, W. J., 84M/4435, 4437
Sivonen, S. J., 84M/4353
Sivtsov, A. V., 84M/0859, 1885, 3255, 3836, 4212
Sjöberg, E. L., 84M/2706, 3008
Skaggs, S. R., 84M/0416
Skinner, A. F., 84M/2366
Skinner, B. J., 84M/1497
Skirrow, R., 84M/2829
Skjemstad, J. O., 84M/2522
Skokan, A., 84M/0367
Skorobogatova, N. V., 84M/1185
Skowroński, A., 84M/0318
Skropyshev, A. B., 84M/4273
Skvortsova, V. L., 84M/3966
Slade, P. G., 84M/1320
Slansky, E., 84M/1918, 3181
Slavinsky, V. V., 84M/4021
Slavkay, M., 84M/0255
Slawson, W. F., 84M/2948
Slodkevich, V. V., 84M/1869
Sloper, R. W., 84M/2780
Slovenec, D., 84M/4235
Slysh, R. A., 84M/1852
Smalley, P. C., 84M/0627, 1204
Smedley, R. J., 84M/1265
Smejkal, V., 84M/1676
Smellie, J. A. T., 84M/1415
Smellie, J. L., 84M/2354, 4364, 4406
Smewing, J. D., 84M/2110
Śmietańska, I., 84M/3224
Smirnov, Yu. D., 84M/2900
Smirnov, Yu. F., 84M/2537
Smirnova, I. S., 84M/0531
Smirnova, O. N., 84M/2167
Smirnova, Ye[E]. V., 84M/4079
Smit, J., 84M/1819, 3115
Smith, A. D., 84M/3589, 3673
Smith, A. L., 84M/1044, 4419
Smith, A. T., 84M/1432
Smith, C. B., 84M/2890
Smith, C. J., 84M/4071
Smith, D. C., 84M/1839
Smith, D. G. W., 84M/1293, 3107
Smith, D. J., 84M/2536
Smith, D. J. H., 84M/1268, 1269
Smith, D. K., 84M/2385, 3696
Smith, F. L., 84M/3727
Smith, G., 84M/0677, 1849, 2722
Smith, G. S., 84M/2392
Smith, I. E. M., 84M/3388
Smith, J., 84M/0288
Smith, J. V., 84M/0989, 1376, 2530, 3781, 3822
Smith, J. W., 84M/2974
Smith, K., 84M/3033
Smith, K. A., 84M/2495
Smith, K. L., 84M/2524, 4257
Smith, M. E., 84M/2291
Smith, N. D., 84M/2555
Smith, N. G., 84M/2557
Smith, P. A., 84M/0654
Smith, P. P. K., 84M/1394
Smith, R. B., 84M/3406
Smith, R. K., 84M/0472
Smith, R. L., 84M/3403
Smith, S. P., 84M/0365
Smith, T., 84M/4471
Smith, T. E., 84M/4396
Smolin, P. P., 84M/0568
Smolka, J., 84M/0282
Smolyaninova, N. N., 84M/1933
Smulikowski, W., 84M/1133
Smyth, J. R., 84M/0885
Smyth, W. R., 84M/0947
Smythe, D. K., 84M/3341, 3585
Snelling, N. J., 84M/3632
Snook, R. D., 84M/2434
Snopko, L., 84M/1081
Snyder, J. G., 84M/0310
Snyder, R. L., 84M/2370, 2377, 2382, 2384, 2387
Snyder, W. S., 84M/3916
So, C.-S., 84M/1497, 4088
Soares de Andrade, A. A., 84M/3455, 3456
Sobey, R. A., 84M/1991
Sobolev, N. V., 84M/2117, 2348, 3189, 3190
Sobolev, V. P., 84M/0391
Sobolev, V. S., 84M/0953, 3361
Soboleva, S. V., 84M/3150
Sobotovich, E. V., 84M/0744
Sohmura, T., 84M/2402
Sohn, I., 84M/1256
Sojka, Z., 84M/1314
Sokkary, A. A. El, 84M/0984
Sokolov, S. V., 84M/3577, 3578
Sokolova, G. V., 84M/1386
Sokolova, I. Yu., 84M/4208
Solé Sabarís, L., 84M/0926
Solheim, A., 84M/1985
Solheim, S., 84M/0553
Soliman, M. M., 84M/3039
Solli, A., 84M/1979
Solomonova, L. A., 84M/3505
Solovova, I. P., 84M/2013
Solyanik, A. N., 84M/0982
Sōma, T., 84M/3002
Soman, K., 84M/2268, 3377
Sombroek, W. G., 84M/1323
Sōmiya, S., 84M/1584
Sommer, S. E., 84M/0243
Song, H., 84M/0633, 4321
Song, S., 84M/3871, 3910
Song, T., 84M/1742
Sonnet, P. M., 84M/0879
Soonawala, N. M., 84M/2935
Soong, R., 84M/0127
Soper, N. J., 84M/4311
Sørensen, I., 84M/3133
Soriano, J., 84M/0382
Soriano, J., 84M/2614, 3473
Sorokhtin, O. G., 84M/1047
Sorokin, V. I., 84M/2749
Sossa, B., 84M/0418
Sotnikov, V. S., 84M/0225
Soutar, A., 84M/2991
Souther, J. G., 84M/4416, 4552
Southwick, D. L., 84M/1010
Souza Santos, H. de, 84M/2095, 4027
Sowerby, B. D., 84M/2443
Spadea, P., 84M/3132
Sparks, R. J., 84M/2978
Sparks, R. S. J., 84M/2667, 3328, 4350, 4419
Spear, F. S., 84M/0625, 1546, 1547, 1573, 4484, 4490
Speczik, S., 84M/4478
Speedyman, D. I., 84M/3339
Speer, J. A., 84M/1220, 1911
Spence, G. D., 84M/1196
Spera, F. J., 84M/2911
Speransky, A. V., 84M/1395, 4269
Spetsius, Z. V., 84M/3188
Spettel, B., 84M/0737
Spiering, H., 84M/3767
Spiers, G. A., 84M/3724, 3770
Spiro, B., 84M/0686, 4175
Spisiak, J., 84M/0635
Spits, P., 84M/2254
Splain, J. H., 84M/2198
Splettstoesser, J. F., 84M/0055
Spohn, A., 84M/1128
Spooner, E. T. C., 84M/1682, 1913, 2774
Sposato, A., 84M/0867
Sposito, G., 84M/1306, 3708
Sprague, J. W., 84M/3776
Spranger, H., 84M/2302
Spray, J. G., 84M/3445
Spudis, P. D., 84M/3073
Squirrell, H. C., 84M/0208, 2459
Squyres, S. W., 84M/3086
Srebodol'sky, B. M., 84M/0820
Srebrodol'skiy, B. I., 84M/1654
Srikantia, S. V., 84M/2113, 4329
Srivastava, R. N., 84M/0025, 1028
Srivastava, S. N. P., 84M/2143
Środoń, J., 84M/3759
St-Onge, M. R., 84M/4509
Staal, C. R. van, 84M/3521
Staatz, M. H., 84M/4213
Stacey, J. S., 84M/1212
Stagpoole, V. M., 84M/4413
Stähle, V., 84M/1637, 3501
Stainforth, J. G., 84M/0954
Stamatelopoulou-Seymour, K., 84M/2044
Stanger, G., 84M/1842, 2799, 3205
Stanley, C. J., 84M/0853, 1930
Stanton, R. L., 84M/0768, 4236
Stanworth, C. W., 84M/2582
Stanzione, D., 84M/1783
Starinsky, A., 84M/0656, 1777
Starke, R., 84M/0518
Starkey, H. C., 84M/1327
Starkey, J., 84M/0905
Starkey, R. E., 84M/2289
Staub, Th., 84M/0250
Staudacher, T., 84M/2913
Staudigel, H., 84M/0616, 2875
Stearn, J. E. F., 84M/4306
Stebbins, J. F., 84M/1559
Stecher, O., 84M/0716
Steckler, M. S., 84M/3301
Steclaci, L., 84M/0541
Steele, I. M., 84M/3236
Steele, T. W., 84M/0715
Stefanidis, T., 84M/1403
Stefanov, D., 84M/1330
Steinberg, M., 84M/3707
Steinberg, S., 84M/3101
Steiner, K., 84M/2486
Steinfink, H., 84M/1409
Steinitz, G., 84M/0656, 1777
Stenina, N. G., 84M/3366, 3814
Stepanov, V. I., 84M/1934, 1937, 4247
Stephens, M. B., 84M/1669
Stephens, W. E., 84M/0588
Stępisiewicz, M., 84M/1907
Stern, C., 84M/2119
Stern, C. R., 84M/3565
Stern, R. J., 84M/2910
Stern, T. W., 84M/1223, 1224
Stern, W. B., 84M/1848
Stetsenko, S. G., 84M/3109
Steven, T. A., 84M/3929
Stevens, B. P. J., 84M/0290
Stevens, R. P., 84M/3762
Steward, R. G., 84M/1060
Stille, P., 84M/2914
Stoch, H., 84M/1242, 3061
Stoch, L., 84M/1322, 1626
Stockman, H. W., 84M/3206
Stockton, C. M., 84M/0492, 0495, 4052

Stoecklin, H.-R., 84M/1178
Stoeser, D. B., 84M/1212
Stoffers, P., 84M/4464
Stöffler, D., 84M/3092
Stoker, M. S., 84M/1987
Stolburg, C. S., 84M/4607
Stolfa, D., 84M/4402
Stolyarov, Yu. M., 84M/4269
Stolz, A. J., 84M/2061, 3384
Stolz, J. F., 84M/2229, 2230
Stone, C., 84M/4549
Stone, D., 84M/1218
Stone, M., 84M/1912, 3343
Stone, P. A., 84M/1144, 1320, 2066, 4364
Stoppioni, A., 84M/2695
Storey, B. C., 84M/3320, 4334
Stormer Jr, J. C., 84M/0403
Storre, B., 84M/3288
Stott, G. M., 84M/1973
Stout, J. H., 84M/4415
Stout, M. Z., 84M/1148, 2039
Stow, S. H., 84M/2171
Straley, C., 84M/0052
Strank, A. R. E., 84M/1068
Strašimirov, S. B., 84M/0846
Streško, V., 84M/0526
Strickholm, P., 84M/1059
Strizhov, V. P., 84M/3464
Strong, D. F., 84M/3897, 4226
Stroud, W. J., 84M/0290
Strunz, H., 84M/3122
Struzhkov, S. F., 84M/3571
Stuart, A., 84M/3940
Stubican, V. S., 84M/0409, 0412
Stubna, S., 84M/0121
Stück, R., 84M/3088
Studemeister, P. A., 84M/2238, 4512
Stul, M. S., 84M/1318, 3750
Stull, R. J., 84M/2118
Stumpfl, E. F., 84M/2128
Stupp, H. D., 84M/2783, 3860
Sturman, B. D., 84M/0839, 0884, 0896, 1915, 4284
Sturt, B. A., 84M/2123, 2127
Styles, M. T., 84M/0755, 2121, 3450, 3641
Styles, P., 84M/3586
Su, M., 84M/2237
Su, S.-C., 84M/3178
Suchecki, R. K., 84M/2988
Suczek, C. A., 84M/0051
Sudo, H., 84M/3687
Sueno, S., 84M/2519
Suga, N., 84M/1581
Sugawara, Y., 84M/1614
Suitch, P. R., 84M/3734
Sukhov, L. G., 84M/0236
Sul, M. F., 84M/0430
Sulcek, Z., 84M/3684
Suleiman, I., 84M/0103
Sullivan, R. W., 84M/1219
Sultanov, A. T., 84M/2055, 2211
Sümer, Y., 84M/0257
Sumino, Y., 84M/2279
Summerfield, M. A., 84M/2216
Sumner, M. E., 84M/3756
Sun, D. C., 84M/3659
Sun, J., 84M/2576
Sun, M., 84M/2032, 2607
Sun, N., 84M/4112
Sun, S., 84M/3858
Sun, W., 84M/0840, 1693, 4202
Sunagawa, I., 84M/0376, 0401, 1551, 1614, 3331, 3965
Sunda, W. G., 84M/3022
Sundara Raju, T. P., 84M/4620
Sundblad, K., 84M/1669
Suneson, N. H., 84M/1014
Suominen, V., 84M/3638
Suprychev, V. A., 84M/3184, 3185
Suquet, H., 84M/3718
Suresh, R., 84M/4620
Susse, P., 84M/3246
Sutcliffe, R. H., 84M/1973
Sutowicz, E., 84M/0804
Sutter, J. F., 84M/3862
Suttner, L. J., 84M/1103
Suwa, K., 84M/3002, 4231, 4499
Suzuki, I., 84M/2279
Suzuki, K., 84M/0639, 2271
Suzuki, M., 84M/3002
Suzuki, N., 84M/3045
Suzuki, S., 84M/0124, 1537, 1619
Suzuki, T., 84M/1262
Suzuki, Y., 84M/3951
Svavarsson, H., 84M/0648, 0649
Sveinbjornsdottir, A. E., 84M/0647
Sverjensky, D. A., 84M/3863, 4161
Sviridov, D. T., 84M/2537
Sviridov, S. D., 84M/2537
Swainbank, I. G., 84M/1674
Swanson, D. K., 84M/0169
Swarbrick, R. E., 84M/2073
Swart, P. K., 84M/2816, 2817, 4139
Swarup, P., 84M/1468
Sweeney, J. F., 84M/1820
Sweet, P. C., 84M/1511, 1512
Swennen, R., 84M/1751
Swihart, G. H., 84M/3236
Swinnea, J. S., 84M/1409
Swinnerton, C. J., 84M/3941
Sychev, V. I., 84M/0286
Sýkora, M., 84M/0599
Syono, Y., 84M/1579
Syren, R. M., 84M/4135
Szabo, J. P., 84M/2227
Szamałek, K., 84M/3768
Szász, G. I., 84M/2648
Szczepanska, T., 84M/4452
Szederkényi, T., 84M/3536
Szymański, A., 84M/4039

Taberner, C., 84M/1075
Tachibana, K., 84M/4587
Tada, F., 84M/1537
Tada, R., 84M/2221
Taftø, J., 84M/2523
Taggart, J. E., 84M/1859
Taguchi, K., 84M/0702
Tahir, M. A. El, 84M/0985
Tait, J. M., 84M/1936, 2467-2469, 2696
Tajder, M., 84M/0972
Takada, M., 84M/4246, 4592, 4595-4597
Takahashi, E., 84M/2718, 2746, 4014
Takahashi, H., 84M/0108, 0109
Takahashi, K. I., 84M/1327
Takahashi, M., 84M/1642
Takano, Y., 84M/1237, 3780
Takaoka, N., 84M/3440
Takeda, H., 84M/4004
Takeda, Y., 84M/2626
Takei, H., 84M/0456, 1579
Takematsu, H., 84M/0124
Takemura, M., 84M/4221, 4223, 4592
Takenouchi, S., 84M/1586
Takeshi, H., 84M/1281, 1282
Takeshita, Y., 84M/4272
Takéuchi, Y., 84M/1364, 3801, 3802, 3826, 3837
Takubo, H., 84M/2684
Talibudeen, O., 84M/1307, 1308
Talis, A. L., 84M/2500
Talkington, R., 84M/2129
Talkington, R. W., 84M/4424
Talkington, W., 84M/1872
Tamada, O., 84M/0157, 1362
Tamenori, H., 84M/2402
Tan, H., 84M/2576
Tan, N., 84M/4168
Tan, Y., 84M/2852
Tanaka, N., 84M/2626
Tanaka, R. T., 84M/2581
Tanaka, T., 84M/0735, 3621, 4196
Tanase, A., 84M/4389
Tandon, S. K., 84M/1332
Tanelli, G., 84M/1673, 2833
Tang, Y., 84M/4330, 4431
Tani, E., 84M/1584
Tani, K., 84M/1357
Tanida, K., 84M/4221
Tankut, A., 84M/2137
Tan Lai Hock, 84M/1336
Tanner, P. W. G., 84M/1145, 3526
Tao, D., 84M/2845
Tao, W., 84M/2220
Tarasenko, A. G., 84M/0330
Tarasenko, V. S., 84M/0270, 1491
Tarashchan, A. N., 84M/3573
Tarasov, A. V., 84M/0271
Tarasov, G. A., 84M/4453
Tardy, Y., 84M/0114, 0364
Tarhanič, L., 84M/0280
Tarkhova, T. N., 84M/2500
Tarkian, M., 84M/3882
Tarkowski, J., 84M/0318
Tarney, J., 84M/1709, 1773, 2085, 2192, 2894, 4123
Tarter, J. G., 84M/2425
Tate, K. R., 84M/0676
Tateishi, S., 84M/2429
Tatekawa, M., 84M/0178
Tatsumi, T., 84M/4231
Tatsumi, Y., 84M/0576
Tatsumoto, M., 84M/2914, 3654, 3668
Tat'yankina, E. M., 84M/0672
Tauber, H., 84M/3247
Tauson, L. V., 84M/0565
Tauson, V. L., 84M/3967
Tauxe, L., 84M/3649
Tauzin, P., 84M/0222
Tavares, M. de Jesus, 84M/3066
Taviani, M., 84M/0985
Taylor, B. E., 84M/4072, 4097
Taylor, B. J., 84M/1101
Taylor, D., 84M/0148, 1346, 4536, 4537, 4540
Taylor, G. J., 84M/0732, 1813
Taylor, G. R., 84M/1880, 1894, 3912
Taylor, J. C., 84M/3855
Taylor, J. R., 84M/0425
Taylor, L. A., 84M/3069, 4233, 4397
Taylor, M., 84M/2585
Taylor, P. N., 84M/0555, 2346, 3655
Taylor, R. I., 84M/0348
Taylor, R. M., 84M/2544
Taylor, R. P., 84M/4226
Taylor, S. R., 84M/0513, 0578, 0977, 2970, 2975, 4150
Tazieff, H., 84M/3423
Tazzini, M., 84M/4567
Tecce, F., 84M/1906
Tedesco, C., 84M/1457
Teixeira, N. A., 84M/2062
Tennakoon, D. T. B., 84M/1264
Tennyson, C., 84M/0761, 3122
Tenyakov, V. A., 84M/0601
Tera, F., 84M/0745, 4085
Terakado, Y., 84M/0371
Terashima, S., 84M/0577, 0718
Thampi, P. K., 84M/2895
Theng, B. K. G., 84M/3719
Théry, J.-M., 84M/1019
Thiel, K., 84M/2783
Thiessen, R. L., 84M/4399
Thirlwall, M. F., 84M/1708, 1718, 2950, 3663
Thiry, M., 84M/1262, 2476
Thivierge, S., 84M/1997
Thode, H. G., 84M/0730, 2697, 3005
Thomas, A., 84M/1011
Thomas, J. F. A., 84M/1517
Thomas, J. H., 84M/1759
Thomas, J. M., 84M/1263, 1264
Thomas, M. D., 84M/1197
Thomas, R. L., 84M/3945
Thomas, S. C., 84M/3041
Thomas, W. J., 84M/4608
Thomassin, J. H., 84M/0351
Thompson, A. B., 84M/0624, 1569
Thompson, G., 84M/2892, 2893, 4432
Thompson, J. F. H., 84M/3856
Thompson, J. G., 84M/3752
Thompson, J. M., 84M/0523
Thompson, J. R., 84M/2322
Thompson, K. F. M., 84M/0680

Thompson, M., 84M/0714
Thompson, M., 84M/2437, 2438
Thompson, P., 84M/1352
Thompson, R. N., 84M/1707, 2160
Thompson Jr, J. B., 84M/1544, 1545
Thomson, J., 84M/2615
Thomson, M. L., 84M/0788
Thomssen, R. W., 84M/2325
Thon, A., 84M/2123, 2127
Thornburn Burns, D., 84M/2414, 2420
Thorne, J. A., 84M/3301
Thorne, L., 84M/2438
Thorne, M. G., 84M/2703, 2967
Thornton, I., 84M/1517
Thorpe, R. S., 84M/2870, 3643, 4106, 4121, 4314
Thorslund, P., 84M/4201
Thorstenson, D. C., 84M/0664
Thrivikramji, K. P., 84M/1094
Thunell, R. C., 84M/2986, 2987
Thurston, P. C., 84M/1735, 3915
Thurston, S. P., 84M/4508
Thy, P., 84M/0955, 0956, 1877, 3340
Tian, R., 84M/2573
Tian, X., 84M/1794
Tiller, K. G., 84M/3709
Tilling, R. I., 84M/4421
Tillmanns, E., 84M/0184, 1354, 3829, 4291
Tilton, G. R., 84M/2795
Timm, R. W., 84M/2003
Timofeeva, S. N., 84M/0286
Timokhina, I. V., 84M/3847
Tindle, A. G., 84M/2258, 3067
Tindwa, R. M., 84M/1321
Tingey, R. J., 84M/0038
Tipping, E., 84M/3046
Tischler, S. E., 84M/2141
Tisue, G. T., 84M/0717
Titkov, G. A., 84M/2899
Tkacheva, T. V., 84M/0002
Todd, S. G., 84M/3395
Todorov, A. M., 84M/1687
Todorov, T., 84M/1488
Toei, K., 84M/2416
Tohara, T., 84M/2715
Tokarz, M., 84M/0318
Tokmakčieva, M., 84M/0819
Tokonami, M., 84M/3826
Tokuyama, H., 84M/2196
Tollon, F., 84M/3596
Tolomeo, L., 84M/0532
Tombrello, T. A., 84M/2660
Tomeoka, K., 84M/0191, 4203
Tomisaka, T., 84M/0163
Tomiska, J., 84M/0342
Tomita, K., 84M/0125, 1623, 3146, 3430
Tomkeieff, O., 84M/1255
Tompkins, L. A., 84M/2820
Tomura, S., 84M/2472, 3737
Tonkin, D. G., 84M/0544
Tonomura, A., 84M/3199
Tooker, E. W., 84M/0217, 0276
Toop, A., 84M/2443
Töpel-Schadt, J., 84M/1827
Topley, C. G., 84M/3349
Toraya, H., 84M/0175, 1236, 1356, 1621
Torgersen, T., 84M/1778
Torii, K., 84M/0397, 0398
Torrent, J., 84M/3773
Torres-Ruiz, J., 84M/3500, 3876
Torske, T., 84M/2053
Tossell, J. A., 84M/1391, 2499, 3779
Touray, J. C., 84M/0351
Touret, J., 84M/0638, 1117
Towe, K. M., 84M/2781
Toyama, T., 84M/4390
Toyohisa, S., 84M/2380
Tőzsér, J., 84M/0296
Tracy, R. J., 84M/1775, 2244
Trauth-Badaut, D., 84M/2163
Traversa, G., 84M/2056, 3425
Traversa, L., 84M/1018
Trayner, P. M., 84M/4312
Treagus, S. H., 84M/1968
Trefry, J. H., 84M/1535
Treiman, A. H., 84M/2655, 3390
Treloar, P. J., 84M/4474
Trepied, L., 84M/4318
Trestman-Matts, A., 84M/1157
Treuil, M., 84M/0552, 1721, 2158, 2193
Trezise, D. L., 84M/2578
Triboulet, C., 84M/1125
Trichet, J., 84M/1797
Trigunayat, G. C., 84M/0206
Trimonis, E. S., 84M/2990
Triplehorn, D. M., 84M/4282
Triscari, M., 84M/2594
Trocine, R. P., 84M/1535
Trofimov, V. A., 84M/2891
Trombe, J.-C., 84M/2609
Trömel, M., 84M/1355
Trosti-Ferroni, R., 84M/0427, 2695
Trotsyuk, V. Ya., 84M/4176
Trudel, P., 84M/4125
Trumm, A., 84M/0420
Trůmpy, R., 84M/1993
Trunov, V. K., 84M/3845
Trzcienski Jr, W. E., 84M/4227
Tsambourakis, G., 84M/4277
Tsao, L., 84M/2745
Tsaritsyn, Ye[F]. P., 84M/3512
Tschudy, R. H., 84M/4207
Tsepin, A. I., 84M/0855, 0859
Tsimbalnikova, A., 84M/4189
Tsipursky, S. I., 84M/1304, 2165, 3751
Tsoy, I. B., 84M/3482
Tsubota, H., 84M/0688
Tsuchiyama, A., 84M/1564, 2746
Tsuji, C., 84M/4583
Tsukioka, M., 84M/2689
Tsunashima, A., 84M/0451
Tsunogai, S., 84M/2626
Tsuru, T., 84M/0108, 0109
Tsuruta, Y., 84M/2471
Tsutsumi, M., 84M/0441, 1586
Tsuzuki, I., 84M/2466
Tsuzuki, Y., 84M/0524
Tsvetkov, A. A., 84M/0990, 1049, 4439
Tsymbal, S. N., 84M/0762, 0763
Tu, G.-Z., 84M/3885
Tubbs, L. E., 84M/2624
Tucci, P., 84M/1833, 2235
Tuček, Ľ., 84M/0280
Tuck, J. J., 84M/1265
Tucker, M. E., 84M/4140
Tuinstra, F., 84M/0185
Tukiainen, T., 84M/0248
Tull, J. F., 84M/3633
Tullis, J., 84M/2662
Tully, M. C., 84M/0958
Tuniz, C., 84M/3090
Turan, J., 84M/0529
Turchenek, L. W., 84M/3770
Turcotte, D. L., 84M/0901, 1187
Turekian, K. K., 84M/3024
Turesebekov, A. Kh., 84M/4269
Turhan, N., 84M/1131
Turi, B., 84M/0630
Turkin, A. I., 84M/2728
Türkmenoğlu, A. G., 84M/1329
Turner, D. C., 84M/3368, 3544
Turner, D. R., 84M/3703
Turner, J. S., 84M/2667
Turner, J. V., 84M/0660, 0662
Turner, P., 84M/1681
Turner, P. J., 84M/1989
Turos, A., 84M/1234
Tuta, Z., 84M/3862
Tutton, J. A., 84M/0432
Tweedie, J. R., 84M/1482
Tyler, I. M., 84M/1106, 2232
Tysseland, M., 84M/0617
Tyusheva, F. N., 84M/0887, 1934, 1937, 3241
Tzvetkova-Goleva, V., 84M/1083

Uchida, E., 84M/1843
Uchida, K., 84M/1586
Udagawa, S., 84M/1625, 2734, 2735, 2737, 2738
Udas, C. G., 84M/0724
Uddenberg-Andersson, A., 84M/0739
Udubaşa, G., 84M/1463
Ueda, S., 84M/2471
Ueda, Y., 84M/0028, 0029, 1891
Ueno, T., 84M/4243
Uhler, A. D., 84M/0386
Ui, T., 84M/2380
Ujihira, K., 84M/2701
Ujike, O., 84M/1000
Ukawa, M., 84M/4556
Ullman, W. J., 84M/0717, 2981
Ul'yanov, A. A., 84M/0750
Umeji, A. C., 84M/3652
Ungaretti, L., 84M/1839, 3145
Uno, Y., 84M/1281, 1282
Unrug, R., 84M/3313, 4325
Unruh, D. M., 84M/2914
Upton, B. G. J., 84M/3338, 4359
Urabe, K., 84M/1625, 2734, 2735, 2737, 2738
Urabe, T., 84M/2441, 4092
Urbain, G., 84M/1561
Ure, A. M., 84M/3133
Urusov, V. S., 84M/0407, 3825
Urusovskaya, A. A., 84M/3830
Ushakova, E. N., 84M/4222
Usova, L. V., 84M/4222
Ussler III, W., 84M/2604
Utada, M., 84M/2754, 3761
Utsunomiya, T., 84M/1621
Uyeda, S., 84M/3298
Uytterhoeven, J. B., 84M/1318, 3750

Vaasjoki, M., 84M/3638
Vachtl, J., 84M/0563
Vakanjac, B., 84M/2139
Valetov, T. A., 84M/3149
Valitov, N. B., 84M/0429
Valle, F. J., 84M/3705
Valley, J. W., 84M/2843, 3559, 4158
Valsardieu, C. A., 84M/0289
Valulenko, A. G., 84M/1788
Valyayev, B. M., 84M/2899
Van, K. V., 84M/3679
Van, L., 84M/3750
van Acker, P., 84M/1401
van Beek, P. C. J. M., 84M/2819
van Bergen, M. J., 84M/4224
van Breemen, N., 84M/3933
van Breemen, O., 84M/1718
Van Calsteren, P. W. C., 84M/0024, 1705, 2813
Vance, E. R., 84M/0325, 4011
Vance, J. A., 84M/0641
Vančová, L., 84M/0529
van Damme, H., 84M/0690
van de Gaag, P., 84M/4298
van de Meent, D., 84M/0681
Vandenbroucke, M., 84M/3056
van den Berg, A. J., 84M/0185
van den Driessche, J., 84M/1959
van den Eeckhout, B., 84M/2262, 3310
van den Hul, H. J., 84M/4111
van der Eerden, J. P., 84M/0153, 0373, 2653
van der Hoek, B., 84M/0373
van der Hoek, S., 84M/1657
van der Leeden, M. C., 84M/0387
Van der Voo, R., 84M/1165
van der Westhuizen, W. A., 84M/1905
van de Velde, G. M. H., 84M/1387
van de Vusse, R., 84M/0848
van-Duysen, J. C., 84M/4525
Vane, R. A., 84M/2398
van Erk, W., 84M/0372
van Everdingen, R. O., 84M/0663
van Graas, G., 84M/0701

Van Hove, M., 84M/3747
Vanko, D. A., 84M/3462
Van Kooten, G. K., 84M/0592
Van Leemput, L., 84M/1318
van Noy, R. M., 84M/3867
Van Overloop, R., 84M/3747
van Padang, M. Neumann, 84M/1029
Van Ranst, E., 84M/1325, 2208
Van Roermund, H. L. M., 84M/3514, 3516
van Rosmalen, G. M., 84M/0387, 0428
Vansant, E. F., 84M/2518
van Staal, C. R., 84M/3521
van Wyk, E., 84M/2426
Varadarajan, S., 84M/1134
Varentsov, I. M., 84M/2165, 2672, 3895
Varfolomeeva, E. K., 84M/2521
Varfolomeyeva, Ye[E]. K., 84M/4280
Varma, R. K., 84M/3935
Varnavas, S. P., 84M/2168, 2849
Varne, R., 84M/2133
Varshal, G. M., 84M/4078
Varshavsky, A. V., 84M/0981
Vasconcellos, M. B. A., 84M/3006
Vasev, M. D., 84M/1084
Vasileva, M. D., 84M/0834
Vasil'eva, N. O., 84M/2512
Vass, D., 84M/1166
Vassoyevich, N. B., 84M/1802
Vasudev, V. N., 84M/3883
Vasudevan, R., 84M/3960
Vaughan, D. J., 84M/0847, 1391, 1466, 1681
Vaughan, M. T., 84M/3570
Vazhenin, B. P., 84M/0751
Vazquez, J., 84M/0413
Vearncombe, J. R., 84M/2122, 2261, 3476
Veblen, D. R., 84M/0172, 0793, 1577, 3085, 3160
Vedani, A., 84M/1388
Vedernikov, A. A., 84M/3845
Vees, R., 84M/3294
Veil, M., 84M/3225
Veizer, J., 84M/0602, 1678
Vejlupex, M. J., 84M/0605
Velasco, F., 84M/3499
Velde, B., 84M/2259, 2520, 2542, 3713
Velde, D., 84M/4024
Velde, G. M. H. van de, 84M/1387
Velinov, I. A., 84M/0865
Velinova, M. I., 84M/1110
Velinsky, V. V., 84M/0469, 3165
Vellutini, P., 84M/3459, 4455
Vellutini, P.-J., 84M/0988, 2057, 2058
Venegas, R., 84M/2958
Venkataramana, P., 84M/0297, 3998
Venkatesan, T. R., 84M/1816
Venkatraman, K., 84M/2114
Venter, J. H., 84M/0715
Ventura, G. C. Della, 84M/2234
Venturelli, G., 84M/2878, 3420, 4106
Verdurmen, E. A. T., 84M/0009, 1205
Vergara, H., 84M/4444
Vergasova, L. P., 84M/0421
Verheyen, T. V., 84M/3057, 4179
Verhoogen, J., 84M/1184
Verkouteren, R. M., 84M/3104
Verlinden, J., 84M/3747
Verma, S. P., 84M/2915, 2917, 2952, 4130
Vernet, J. P., 84M/3945
Vernhet, S., 84M/2150
Vernon, R. H., 84M/2252, 3335, 4349
Verosub, K. L., 84M/3609
Verschure, R. H., 84M/0009, 1205
Vertes, A., 84M/3691
Veselinov, I., 84M/0852
Veselský, J., 84M/0017, 0566, 0969
Vetshtein, V. E., 84M/0522
Vezzalini, G., 84M/0181, 0815, 0857, 2531
Vezzoli, G. C., 84M/0436, 0437
Vgenopoulos, A. G., 84M/4450
Viaene, W., 84M/1751
Vialon, P., 84M/4316
Viani, B. E., 84M/0140, 1335
Vicat, J.-P., 84M/3459, 4455
Vicente, M. A., 84M/0468
Vicente-Hernandez, J., 84M/0468
Victor, A. H., 84M/0712, 0725
Vidal, P., 84M/0012, 3636, 4120
Vielzeuf, D., 84M/1108, 4317
Viets, J. G., 84M/2423, 2424
Viets, T. C., 84M/0701
Vigh, G., 84M/1532
Vigneresse, J. L., 84M/4425
Vikulova, L. P., 84M/4082
Vilinović, V., 84M/0967, 0969
Vilisov, V. A., 84M/0895
Vilker, V. L., 84M/1523
Villar, L. Pérez del, 84M/3172
Villemant, B., 84M/1721
Villeneuve, J.-P., 84M/0694
Villeneuve, M., 84M/1193
Villey, M., 84M/4488
Villiers, J. E. de, 84M/1467
Violante, A., 84M/2696
Violante, P., 84M/0139, 2696
Violette, J.-F., 84M/0228
Virgo, D., 84M/0354, 2666, 3975, 4033-4036
Virkkunen, M., 84M/4055
Virta, R. L., 84M/0310
Visentin, E. Justin, 84M/1027
Vishnevsky, A. A., 84M/0763
Visonà, D., 84M/2021, 3152
Viswanath, K., 84M/3428
Viswanatha, M. N., 84M/0769, 2346, 3655
Vita-Finzi, C., 84M/2345
Vitov, O. H., 84M/1487
Vitturi, L. M., 84M/1077
Vivier, G., 84M/2170
Vlaar, N. J., 84M/3334
Vladimirov, A. G., 84M/0760
Vladykin, N. V., 84M/4079
Vlasenko, L. A., 84M/3962
Vlasova, E. V., 84M/3150
Vlasse, M., 84M/1404
Vochten, R., 84M/1401
Vochten, R. F., 84M/0874
Vogel, T. A., 84M/2954
Voigt, S., 84M/4565
Vokes, F. M., 84M/2140, 3523
Volfinger, M., 84M/1249, 1624
Volkman, J. K., 84M/0678, 0699, 0700
Volkova, N. I., 84M/1112
Vollmer, R., 84M/0509, 2887
Voloshin, A. V., 84M/0841, 0887, 1931, 1934, 1937, 1940, 3241, 3254, 3794
Volpe, L. La, 84M/3139, 3355
Voltaggio, M., 84M/0532
Volynets, F. K., 84M/3818
von Gehlen, K., 84M/0844, 1677, 1870
Von Herzen, R. P., 84M/3580
von Hodenberg, R., 84M/3247
von Knorring, O., 84M/4254
von Schnering, H. G., 84M/3841
Voo, R. Van der, 84M/1165
Vorob'ëv, Yu. K., 84M/1594
Voronkov, A. A., 84M/0199, 0894, 1933, 1942
Voronkov, V. V., 84M/2652
Voronovskiy, S. N., 84M/2347
Vorontsov, A. E., 84M/3505
Vorwerk, R., 84M/2783
Vozárová, A., 84M/1081
Voznyak, D. K., 84M/0978
Vrbanović, Z., 84M/0394
Vrevskiy, A. B., 84M/0569
Vrublevskaya, S. V., 84M/0859
Vrublevskaya, Z., 84M/4266
Vuagnat, M., 84M/1022, 2083
Vuataz, F. D., 84M/0651
Vuiko, V. I., 84M/0762, 0763
Vukotić, P., 84M/4141
Vurro, F., 84M/1745, 2838
Vusse, R. van de, 84M/0762, 0848
Vyal'sov, L. N., 84M/0821, 0859, 0892
Vysotskiy, S. V., 84M/2024

Wachendorf, H., 84M/0023
Wada, H., 84M/0524, 0639, 4500
Wada, K., 84M/1324, 1652
Wadsten, T., 84M/0837, 1828, 2971
Waggoner, D. G., 84M/2915
Wagner, J., 84M/1673, 1811
Wagner, J.-J., 84M/2083, 2095
Wagner, U., 84M/3597
Waibel, A. F., 84M/4417
Wakabayashi, S., 84M/1343
Wakatsuki, T., 84M/3766
Wakita, H., 84M/2798
Waldron, D. A., 84M/1196
Walenta, K., 84M/2299, 3229, 3245, 3248, 4559
Wali, A. M. A., 84M/1087, 1750
Walker, B. A., 84M/0312, 3744-3746, 3971
Walker, D., 84M/3336, 3444
Walker, D. A., 84M/1731, 2034
Walker, G., 84M/2517
Walker, G. P. L., 84M/1033
Walker, J. C. G., 84M/2779, 2784, 4067
Walker, R. M., 84M/3079
Walker, R. N., 84M/0288
Walker, T. R., 84M/4146
Wall, G. J., 84M/2406
Wall, V. J., 84M/1568, 1622, 2252, 2641, 2723
Wallace, G., 84M/2978
Wallace, P. I., 84M/2274
Wallin, B., 84M/0248
Wallis, R. H., 84M/3898
Walliser, O. H., 84M/3259, 3262
Walna, B., 84M/4452
Walque, L. De, 84M/1685
Walsh, J. J., 84M/1766, 4126
Walsh, J. N., 84M/4357
Walter, M. R., 84M/2338, 3490
Walter, R. C., 84M/3651
Walters, S. G., 84M/4407, 4473
Walther, J. V., 84M/0475, 1557
Walton, E. K., 84M/0911, 0912, 1255
Walzel, E., 84M/0966
Wan, C., 84M/0203
Wan, D., 84M/0943
Wan, H.-M., 84M/1825
Wan, Z., 84M/1051
Wang, B., 84M/3197
Wang, C., 84M/0145, 1428
Wang, C.-H., 84M/0132
Wang, D., 84M/3097, 3106, 3111, 3660, 3909
Wang, F., 84M/4461
Wang, J., 84M/2577, 3483, 3891
Wang, Jiyan, 84M/3591
Wang, Jun, 84M/3591
Wang, K., 84M/1728
Wang, M., 84M/1746
Wang, M. C., 84M/1288
Wang, M. K., 84M/1311
Wang, Q., 84M/4330
Wang, S., 84M/0123, 2349, 2575, 3123
Wang, S.-Y., 84M/2675
Wang, T. S. C., 84M/1288
Wang, W., 84M/1243, 3858, 4459
Wang, X., 84M/1245, 3771, 4431
Wang, Y., 84M/1425, 1429, 2033, 4261
Wang, Z., 84M/1472, 2574, 4166, 4202
Wang, Z.-T., 84M/3884

Wanke, H., 84M/0737
Wappler, E., 84M/4529
Ward, G. R., 84M/3595
Ward, R. C. C., 84M/0183
Warden, A. J., 84M/2882
Wardroper, A. M. K., 84M/3048
Warhus, U., 84M/2751, 2752
Warner, B., 84M/0298
Warner, B. G., 84M/0660
Warner, J. L., 84M/2006, 2010
Warren, H. V., 84M/4185
Warren, J. K., 84M/2222, 2610, 2611, 3479
Warren, P. H., 84M/1813, 3072
Warren, R. G., 84M/3552
Wass, S. Y., 84M/2908, 3385
Wasserburg, G. J., 84M/0738, 3098, 3113, 3116, 4194
Wasson, J. T., 84M/0736, 1813, 3111
Watanabe, A., 84M/1586
Watanabe, H., 84M/4412
Watanabe, K., 84M/0401
Watanabe, M., 84M/1140
Watanabe, S., 84M/0748, 2281
Watanabe, T., 84M/1274, 4501
Waterhouse, J. B., 84M/4435, 4437
Watkins, K. P., 84M/1122
Watkins, P. J., 84M/0714, 2417
Watkinson, A. J., 84M/1976
Watkinson, D. H., 84M/1431, 1872, 1896, 3915, 4424
Watson, A. E., 84M/0065
Watson, E. B., 84M/1609, 1610, 2747
Watson, J., 84M/0908
Watson, J. V., 84M/2551, 3306
Watt, J., 84M/1517
Watterson, J. I. W., 84M/0072
Watts, J. A., 84M/2692
Watts, M. J., 84M/3527
Waychunas, G. A., 84M/0186, 1347
Weaire, D., 84M/3345
Wearing, E., 84M/1620, 2670
Weaver, B. L., 84M/1709, 1773, 2894
Webb, B., 84M/1988
Webb, P. C., 84M/4121
Webber, G. R., 84M/4156
Weber, K., 84M/3268, 3270, 3271, 3274, 3275, 3279, 3283, 3284, 3295
Weber, W., 84M/2935
Weber-Diefenbach, K., 84M/1811
Wechsler, B. A., 84M/3823
Wedeking, K. W., 84M/3044
Wedepohl, K. H., 84M/3265, 3266, 3311, 4368
Weerkamp, H. R., 84M/3960
Wegelin, A., 84M/2254
Wei, H.-P., 84M/4550
Wei, J., 84M/2823
Wei, K., 84M/4166
Wei, M., 84M/3097
Weibel, M., 84M/0558, 0559, 1179
Weidmann, M., 84M/0926, 1045
Weijermars, R., 84M/3310
Weijnen, M. P. C., 84M/0428
Weil, J. A., 84M/3815
Weil, R., 84M/3215
Weill, D. E., 84M/1559
Weinberg, M. C., 84M/0356
Weiner, K. L., 84M/1651
Weinke, H., 84M/3226
Weir, A. H., 84M/1331
Weis, D., 84M/1454, 2998
Weise, C., 84M/4569
Weise, G., 84M/4271
Weiss, J., 84M/0379
Weiss, R. F., 84M/3020
Weiss, S., 84M/2311
Weiss, Z., 84M/1290, 1372, 1373
Welin, E., 84M/3638
Wellman, P., 84M/2352
Wellmer, F. W., 84M/1481
Wells, L. D., 84M/1904
Welser, Th., 84M/2135
Wen, G., 84M/1423
Weng, K., 84M/3678, 3790, 3800, 3821
Weng, S., 84M/2031
Wengeler, H., 84M/4529
Weninger, H., 84M/4074
Wenk, G. J., 84M/2443
Wenk, H.-R., 84M/1376, 1398, 1399, 1598, 1863
Wentzlau, E., 84M/1481
Wenzel, J. T., 84M/1563
Werner, M., 84M/2622
Wernicke, B., 84M/3324
Wescott, W. A., 84M/2228
West, A. R., 84M/0413
West, L. T., 84M/0073, 3775
Westenberger, H., 84M/1481
Westgate, J. A., 84M/3651
Westhuizen, W. A. van der, 84M/1905
Westlake, D. J., 84M/1268,1269
Westrich, H. R., 84M/4097
Wetzel, K., 84M/0550, 4066
Whalen, J. B., 84M/2919
Wheatley, R. E., 84M/3048
Wheeler, B. D., 84M/2405
Wheeler, J. O., 84M/2360
Wheller, P. M., 84M/2559
Whitaker, N. G., 84M/3319
White, A. F., 84M/0368
White, B., 84M/4468
White, G. K., 84M/4533
White, J. C., 84M/4332
White, J. L., 84M/1311, 1312
White, J. S., 84M/4611
White, S. H., 84M/4332
White, T. J., 84M/2503
White, W., 84M/4426
White, W. B., 84M/1541, 1542
White, W. M., 84M/4095, 4122
Whitechurch, H., 84M/2105, 3457
Whiteley, M. J., 84M/1989
Whitfield, H. J., 84M/1358
Whitfield, M., 84M/3703
Whitlow, S. I., 84M/3769
Whitman, J. M., 84M/2337
Whitney, G., 84M/0245, 1297
Whitney, J. A., 84M/3983
Whittaker, A., 84M/4315
Whittaker, E. J. W., 84M/0872, 3783
Whittaker, P. J., 84M/1872, 4424
Wickman, F. E., 84M/0739, 1207, 3631, 4201
Widenfalk, L., 84M/2969
Wiebe, R. A., 84M/3392
Wieczorek, A., 84M/3846, 4237
Wielemaker, W. G., 84M/3766
Wieluński, M., 84M/1234
Wiersma, C. L., 84M/3992
Wierzcholowski, B., 84M/1845
Wieser, T., 84M/3477
Wiewióra, A., 84M/1290
Wightman, R. T., 84M/1137
Wiik, H. B., 84M/3089
Wijayananda, N. P., 84M/0265
Wiklander, U., 84M/0009
Wikström, A., 84M/1206
Wilbur, D. G., 84M/1447
Wilcox, R. E., 84M/2367
Wild, J. B. L., 84M/3918
Wild, R. K., 84M/3672
Wild, T., 84M/3392
Wilde, S. A., 84M/3664
Wilder, H., 84M/3264
Wilding, L. P., 84M/3683, 3775
Wilgat, M., 84M/3755
Wilhelm, H., 84M/3272
Wilke, H.-J., 84M/4572
Wilkinson, J. F. G., 84M/2061
Wilkinson, N., 84M/0534
Wilkinson, W. H., 84M/4251
Wilks, E. M., 84M/0183
Wilks, J., 84M/0183
Will, G., 84M/2504, 2543
Willan, R. C. R., 84M/4077
Willemin, J. H., 84M/3324
Willems, M., 84M/2432
Willgallis, A., 84M/3250
Williams, A. E., 84M/3510, 3225
Williams, A. K., 84M/0682
Williams, B., 84M/1449
Williams, B. B., 84M/0299, 1505
Williams, B. P. J., 84M/0115
Williams, C., 84M/4251
Williams, C. T., 84M/1714
Williams, D., 84M/0298
Williams, D. B., 84M/1585, 3674
Williams, F. M., 84M/1683
Williams, G., 84M/1119, 4300
Williams, G. D., 84M/1944, 3527
Williams, G. M., 84M/0682, 3940
Williams, H., 84M/0947
Williams, I. R., 84M/2351
Williams, I. S., 84M/2351
Williams, J. G., 84M/1003, 3388
Williams, P. F., 84M/2260, 3521
Williams, P. J., 84M/2147, 3901
Williams, S. J., 84M/0033
Williams-Jones, A. E., 84M/2276, 2556
Willis, I. L., 84M/0290
Willmott, W. F., 84M/2616
Wilson, A. F., 84M/0546, 0621, 3003, 3662, 4155
Wilson, A. T., 84M/3058
Wilson, C. J. N., 84M/4403
Wilson, C. M., 84M/0414, 0415
Wilson, H. E., 84M/1990
Wilson, I. H., 84M/3319
Wilson, J. R., 84M/0006
Wilson, L., 84M/3083
Wilson, L. V., 84M/2404
Wilson, M. A., 84M/0676, 1799
Wilson, M. J., 84M/0139, 1936, 2469
Wilson, P., 84M/3386
Wilson, R., 84M/0684
Wilson, R. T., 84M/2047
Wilson, W. E., 84M/2316, 2328, 4570, 4571, 4609, 4610, 4612
Wilton, D. H. C., 84M/2001
Wimmenauer, W., 84M/3528
Wims, A. M., 84M/2394
Winchester, J. A., 84M/0629, 3000
Windley, B. F., 84M/0824, 2202, 2264, 3537, 3546, 4217
Winkler, A., 84M/1341
Winkler, H. G. F., 84M/3290
Winter, G. A., 84M/3121
Wintle, A. G., 84M/0005
Wintsch, R. P., 84M/0803
Wise, W. S., 84M/2647
Wise Jr, S. W., 84M/2201
Wiszniewska, J., 84M/1462
Wit, M. J. de, 84M/2119
Withnall, I. W., 84M/2579
Witschard, F., 84M/4308
Witt, N. V., 84M/1921
Witte, S.-M. De, 84M/1805
Wittig, R., 84M/3278, 3282
Wixson, B. G., 84M/1514
Wlodyka, R., 84M/3357, 4479
Wlotzka, F., 84M/0737
Woensdregt, C. F., 84M/2525, 2526
Wofsy, S. C., 84M/0642
Wohletz, K. H., 84M/3411, 4404
Wolacewicz, W. P., 84M/2445
Wold, R., 84M/2046, 2822
Wolff, J. A., 84M/1023, 1044
Wolff, P. M. de, 84M/1348-1350, 3784
Wollast, R., 84M/1754, 1910
Wonderley, P. F., 84M/4335
Wones, D. R., 84M/2944
Wong, E. R., 84M/2388
Wong, G., 84M/0276
Wong, P. T. T., 84M/3676
Wong-Ng, W., 84M/2379
Wood, B. J., 84M/3299, 4016
Wood, C. A., 84M/3424
Wood, C. P., 84M/1037
Wood, D. A., 84M/2085
Wood, I. G., 84M/1352
Wood, J., 84M/1149

Wood, J. A., 84M/3105
Woodcock, N. H., 84M/0936, 2068, 3302
Wooden, J. L., 84M/1260, 2005, 2007, 2010, 2361, 2777, 2949, 3069
Woodhouse, G. W., 84M/0699
Woodhouse, J. H., 84M/4557
Woodsworth, G. J., 84M/1219
Woodward, M. J., 84M/4418
Woolard, C. A., 84M/4114
Woolsey, T. S., 84M/1020
Woolum, D. S., 84M/0077
Wörner, G., 84M/2881, 3192
Worrall, W. E., 84M/0103-0105
Worsley, D., 84M/4309
Worthing, M. A., 84M/4505
Worthington, M. H., 84M/2559
Wright, A. F., 84M/0473
Wright, G. R., 84M/2617
Wright, I. P., 84M/3099
Wright, J. V., 84M/1023, 1044, 4419
Wright, N. A., 84M/1414
Wright, W., 84M/1644
Wu, B., 84M/1746
Wu, H., 84M/2116
Wu, J., 84M/3685, 3686
Wu, Q., 84M/1476
Wu, X., 84M/3872
Wyk, E. van, 84M/2426
Wylie, A. G., 84M/0310
Wyllie, P. J., 84M/1552, 1554, 3193, 3371, 4007
Wynn, J. C., 84M/4544
Wyrwicki, R., 84M/1326
Wyszomirski, P., 84M/3223

Xiang, D., 84M/4202
Xiang, J., 84M/1741
Xiao, C., 84M/1473
Xiao, J., 84M/2285
Xiao, X., 84M/1051, 2269, 4431
Xiao, Z., 84M/2033
Xie, Y., 84M/1429
Xu, H., 84M/3118
Xu, J., 84M/3676, 3790, 3800, 3821, 3954
Xu, K., 84M/2032
Xu, Q., 84M/4270
Xu, Q.-H., 84M/2758
Xu, Z., 84M/2576
Xuan, J., 84M/4202
Xuan, R., 84M/1818

Yada, K., 84M/4027
Yagi, T., 84M/3963
Yajima, J., 84M/3904
Yakhontova, L. K., 84M/0361, 1593
Yakubovich, O. V., 84M/0204, 1931, 3794
Yakushev, V. V., 84M/3363
Yakutseni, V. P., 84M/0707
Yamada, I., 84M/0110
Yamada, S., 84M/4591, 4592
Yamada, T., 84M/3508
Yamagami, E., 84M/2429
Yamaguchi, M., 84M/3951
Yamaguchi, Y., 84M/3146
Yamamoto, M., 84M/0125, 0829, 2701, 3430
Yamamoto, S., 84M/0339
Yamamoto, T., 84M/4601
Yamanaka, S., 84M/2465
Yamanaka, T., 84M/2754, 3826
Yamnova, N. A., 84M/0204
Yan, J., 84M/3888
Yang, D., 84M/2236
Yang, G., 84M/4292
Yang, R., 84M/1728
Yang, W., 84M/1818
Yang, Z., 84M/0727, 3484
Yano, S., 84M/4583
Yanshin, A. L., 84M/2213
Yapp, C. J., 84M/1299
Yapp, C. J., 84M/2691
Yardley, B. W. D., 84M/0632, 1774
Yariv, S., 84M/3707
Yarmolyuk, V. V., 84M/0995, 4376
Yaroshenko, S. K., 84M/1665
Yashima, R., 84M/0029
Yasuda, M., 84M/0741, 0748
Yatagai, K., 84M/4272
Yau, Y.-C., 84M/1580
Yayanos, A. A., 84M/2802
Ye, D.-I., 84M/3178
Ye, D.-N., 84M/3572
Ye, J., 84M/2032
Ye, Q., 84M/3908
Yeh, C.-L., 84M/1825
Yeh, H.-W., 84M/0132, 2177, 3441
Yeko, J., 84M/2388
Yemel'yanenko, P. F., 84M/4373
Yermilov, V. V., 84M/3895
Yermilova, L. P., 84M/4069
Yi, D., 84M/3978
Yiginsu, I., 84M/4180
Yigit, E., 84M/1419
Yilmaz, O., 84M/3359, 3458
Ying, Y., 84M/0776
Ying, Y.-P., 84M/2505
Yiou, F., 84M/3630
Ylä-Jääski, J., 84M/2510
Yoder Jr, H. S., 84M/0209, 0350, 2527, 3949, 3976, 4024, 4385
Yokoyama, K., 84M/4220, 4192
Yonebayashi, K., 84M/0107
York, D., 84M/3651, 3653
Yoshida, K., 84M/4591
Yoshida, T., 84M/0833, 2471, 3831
Yoshimura, M., 84M/1584
Yoshimura, T., 84M/1343
Young, B. R., 84M/0755
Young, C. P., 84M/1531
Young, I. M., 84M/4360
Young, R. A., 84M/3734
Yu, D., 84M/4165
Yu, H., 84M/2575, 3891
Yu, J., 84M/2598
Yu, R. M., 84M/0505, 2772
Yu, S., 84M/1493
Yu, Z., 84M/0943
Yuan, R., 84M/2576
Yue, S., 84M/3858
Yuen, D. A., 84M/3299
Yuen, G., 84M/4204
Yui, S., 84M/4288
Yukawa, M., 84M/1140
Yund, R. A., 84M/2662
Yuretich, R. F., 84M/0655
Yvon, K., 84M/1653

Žaba, J., 84M/4322
Żabiński, W., 84M/0872
Žabka, M., 84M/0966
Zagorsky, V. E., 84M/1665
Zahnle, K. J., 84M/2779
Zainal, Y. M., 84M/0606
Zajac, M., 84M/4426
Žák, L., 84M/1898
Zakharova, Ye[E]. M., 84M/3571
Zakirov, I. V., 84M/1549
Žáková, E., 84M/0134
Zakrutkin, V. Ye[E]., 84M/1763
Zakrzewski, M. A., 84M/0861
Zanettin, B., 84M/1027
Zangwil, A., 84M/1776
Zanini, G., 84M/1360
Zao, Y., 84M/4431
Zaporozec, A., 84M/1529
Zaritsky, A. I., 84M/1852
Zartman, R. E., 84M/4516
Zashu, S., 84M/2818, 4096
Zav'yalova, I. V., 84M/0789
Zayachkovsky, A. A., 84M/3188
Žbik, M., 84M/0754, 1302
Zeck, H. P., 84M/0615, 1767, 2868
Zehnder, K., 84M/0929
Zeman, I., 84M/1593
Zemann, J., 84M/2548, 2549, 3851
Žemlička, J., 84M/4531
Zen, J., 84M/4112
Zen, R., 84M/1426
Zeng, J., 84M/4165
Zeng, Q., 84M/0212
Zenger, D. H., 84M/1104
Zen'ko, T. E., 84M/4372
Zentilli, M., 84M/2885, 2955
Zhang, B., 84M/4460
Zhang, C., 84M/1427
Zhang, D., 84M/1478
Zhang, G., 84M/3872
Zhang, J., 84M/1476, 2032, 4154
Zhang, L., 84M/2574
Zhang, Q., 84M/1050
Zhang, R., 84M/0123
Zhang, R.-Y., 84M/1138
Zhang, X., 84M/4461
Zhang, Y., 84M/3926, 4202
Zhang, Z., 84M/1494, 1765, 4202
Zhang, Z. Q., 84M/4153
Zhang, Z.-R., 84M/2678
Zhang, Z.-Y., 84M/3789
Zhao, B., 84M/3978
Zhao, D., 84M/2033, 2349
Zhao, R., 84M/2825
Zhao, Y., 84M/2576, 3689
Zhdanov, S. P., 84M/1380
Zhdanov, V. V., 84M/0818, 3200, 3330
Zhen, B., 84M/4167
Zheng, M., 84M/1741
Zheng, R., 84M/2576
Zheng, X., 84M/1475
Zhi, X., 84M/2577
Zhikhareva, V. P., 84M/2679, 3966
Zhong, F. D., 84M/3659
Zhong, H., 84M/3118
Zhong, J., 84M/1477
Zhou, J., 84M/4112, 4292
Zhou, K., 84M/4292
Zhou, M., 84M/3625
Zhou, X., 84M/1051
Zhou, Y., 84M/0776
Zhu, B., 84M/1729
Zhu, B.-Q., 84M/2901
Zhu, C., 84M/1798
Zhu, M., 84M/2349
Zhu, Y., 84M/3873
Zhuang, L., 84M/1493
Zhuang, S., 84M/0840, 3097
Zhukhiistov, A. P., 84M/0171, 3808
Ziegler, V., 84M/1457, 1458
Zielinski, R. A., 84M/4146
Zielonka, J., 84M/2342
Ziemer, B., 84M/0464
Žigo, O., 84M/0099
Zil'berstein, A. Kh., 84M/1156
Zilka, N. T., 84M/3867
Zimmerle, W., 84M/1057, 1073
Zimmerman, H. B., 84M/2485
Zimmermann, H. D., 84M/2731
Zimmermann, J.-L., 84M/1211, 1227
Zinchuk, N. N., 84M/3364
Zindler, A., 84M/2875
Zinner, E., 84M/3079
Zipelli, C., 84M/1628
Zol'nikov, G. V., 84M/0981
Zolotarev, A. A., 84M/3504
Zolotarev, B. P., 84M/2156
Zolotarev, V. G., 84M/0226, 4078
Zolotukhin, V. V., 84M/2572, 3868
Zonenshain, L. P., 84M/1047
Zonn, Z. N., 84M/0165
Zotov, I. A., 84M/4093
Zuberec, J., 84M/0119
Zuenko, V. V., 84M/3364
Zuev, V. M., 84M/3364
Zussman, J., 84M/2725
Zuther, M., 84M/1485, 2588
Zverev, V. P., 84M/2492
Zvinchuk, R. A., 84M/0190
Zvyagin, B. B., 84M/0171, 1186, 3808
Zyla, M., 84M/3754

SUBJECT INDEX

to *Mineralogical Abstracts*, vol. 35. Names of REGIONS are printed in capitals, subjects in lower-case roman, and *localities* in italics

Acanthite, *Channel Islands*, *Sark*, *Sark's Hope mine*, occurrence, microprobe anal., 84M/0853; *Mexico*, *Guanajuato*, *Mina de San Juan de Rayas*, crystals to 1″, description, 84M/4613

Acetate ions, effect on Al-hydroxide precipitation, 84M/1311

Acetic acid *v.* acids, acetic

Acids, acetic, thermal decarboxylation, implications for natural gas origin, 84M/0390

—, amino, complexes with montmorillonite, electrical props., 84M/2466; and clay minerals in relation to origin of life, 84M/2470; uptake by synthetic akaganéite, 84M/2971; optical activity in Murchison meteorite, comment, 84M/3101; reply, 84M/3102; isolated from cultured microorganisms, stable N, C isotopic compn., 84M/4170; in modern/fossil collagens, C, N isotopic compn., 84M/4173; *east China*, in mudstones from Meso-Cainozoic sedimentary basins, 84M/1794

—, citric, influence on natural formation of imogolite, 84M/3722

—, fatty *v.* hydrocarbons

—, fulvic, sedimentary, as surface active substance, 84M/0688

—, humic, sedimentary, as surface active substance, 84M/0688; multiple metal ion exchange with, 84M/3050; *Australia*, content in coals, evaluation of Rock-Eval pyrolysis, 84M/4179

—, hydrochloric, solubility of amorphous silica at 100°–400°C, 101·3 MPa, 84M/2749; electrical conductances, ionization constants from 100°–700°C and P = 4000 bars, 84M/3955

—, hydrofluoric, use in disaggregating quartzites, 84M/0051

—, nitric, solubility of amorphous silica at 100°–400°C, 101·3 MPa, 84M/2749

—, oxalic, dihydrate, structural parameters and electron density maps, comparison, 84M/3785

—, silicic, partial molal vol. in 0·725 M NaCl at 1°C, 84M/2656

Actinides, partitioning between whitlockite/liquid, influence of actinide concentrations, lab. study, 84M/2661

Actinolite *v.* amphibole

Adamite, *Germany*, *Clara mine*, new find, 84M/4559; *USA*, *Utah*, *Tooele Co.*, *Gold Hill*, occurrence, description, 84M/2316

Adirondack Mountains v. USA, New York

ADRIATIC SEA, *north*, fine sediments, relationships between surface area and grain size, 84M/1077

Adularia *v.* feldspar

AEGEAN AREA, neotectonics, alternative view, remarks on previous paper, 84M/3613

Aenigmatite, *Greenland*, *Motzfeldt centre*, from nepheline-syenites, microprobe anals., 84M/1841

Aeolian deposits, *Canada*, *North West Territories*, *Hornby Bay group*, Proterozoic quartz arenites, implications for Precambrian aeolian processes, 84M/2223

AFRICA, fractionation of Zr, Hf in cassiterite, 84M/0825; Lufilian arc, microplate in collision zone of Congo and Kalahari cratons, 84M/3313; crustal lineaments and shear zones, relationship to plate movements, 84M/4324; kimberlite genesis, geodynamic setting, 84M/4379; *north west*, Late Proterozoic volcanic rocks, U, Th content, 84M/2885; early Mesozoic tholeiites, tr. element geochem., 84M/2897; *southern*, Cretaceous kimberlites, sources, Pb, Sr, Nd-isotope evidence, 84M/2890; *southern west coast*, Precambrian and Early Palaeozoic terrains, geol. comparison with South America, 84M/4327; *south west African shelf*, lipids from Holocene phosphate nodules, C-isotope distrib., relation to genesis, 84M/3055; *southern*, *Frank Smith*, *Excelsior*, *Sekameng* and *Mukorob kimberlites*, intrinsic f_{O_2} of megacryst ilmenite, upper mantle implications, 84M/4383; *Kalahari basin* and *Cape coastal zone*, silcrete, petrography, diagenesis, 84M/2216; *Nigerian sector of Pan-African province*, Upper Proterozoic schist belts, 84M/3544

—, East, gem-quality enstatite, confusion with new Tanzanian peridot, anals., comparison, 84M/0492; rift, structural sketch, comparison with field and seismic data, possible future oceanic opening, 84M/1194; *Lakes Tanganyika* and *Malawi*, rift lakes, new seismic data, implications, 84M/3615; *Virunga*, K-rich volcanic rocks, possible metasomatic origin, isotope evidence, 84M/2887; K-rich volcanic rocks, magmatism, statistical geochem. study, 84M/2888

—, West, ferricrete ('cuirasse'), epochs of formation, 84M/0601; Late Proterozoic carbonates, Sr-isotope evidence for 'mantle' event ~900 Ma ago, 84M/0602; ilmenite nodules in kimberlite, clue to redox state of upper mantle, 84M/2820; how many rifts are there?, 84M/4617

Agardite-(La), *Greece*, *Laurion*, new mineral, description, 84M/1923

Agate, volcanic, genesis, 84M/0518; *Australia*, *Queensland*, *Agate Creek*, gemfield, 84M/2579; *Brazil*, crystal structure, growth fabric, twinning of length-fast chalcedony from, 84M/3816; *Paraiba*, *Sitio Garguelo*, angular, possible origin, 84M/2766

Age determination, ^{40}Ar-^{39}Ar standards, high precision intercalibration, 84M/0001; ^{40}Ar-^{39}Ar dating, irradiation of samples for, 84M/0003; imperfectly fitted Rb/Sr isochrons from polymetamorphic terrains, comments, 84M/0004; alteration events in granitoids, Rb/Sr dating, method, 84M/1207; obsidian artefacts, dating by thickness of surface hydration layer, 84M/1651; stalagmitic calcite, overestimate of ESR dates due to lab. heating, 84M/2366; dating pre-Holocene groundwaters, use of O,C-isotopes, 84M/3297; K-Ar dating, incomplete extraction of radiogenic Ar from alkali feldspar, 84M/3622; $^{40}Ar/^{39}Ar$ age spectra, observations on interpretation, 84M/3623; Pb model ages, unscrambling, 84M/3628; ^{26}Al in terrestrial/extraterrestrial matter, first accelerator mass spectrometry measurement, 84M/3630; U-Pb systematics, cases of crystals with discrete cores, 84M/3631; *southern west Greenland*, carbonatites, kimberlites, lamprophyres, 84M/1202; *southern Norway*, explosive volcanism perforating Precambrian basement, 84M/1205; *Fongen-Hyllingen complex*, age of syenitic differentiates, 84M/0006; *Gjerstad gneiss*, Rb/Sr isochrons, resetting during Sveconorwegian events, 84M/1204; *Lødingen*, granite, possible regional significance, 84M/3633; *Molde Peninsula*, Proterozoic augen orthogneiss, Rb-Sr study, 84M/2997; *Risberget nappe*, rapakivi granite, augen gneiss, Rb/Sr data, 84M/1203; *south west Sweden*, bentonite, Rb/Sr, U/Pb dating, 84M/1221; *Graversfors granite*, Rb/Sr dating, 84M/1206; *Hjulsjö area*, skarns, metabasites, leptites, K/Ar, Rb/Sr data, 84M/0009; *Norra Kärr*, alkalic pluton, time of emplacement, 84M/3634; *Orust*, Rb/Sr isotopic equilibrium of dykes during Sveconorwegian deformation, metamorphism, 84M/3635; *Orust area*, *Stora Le Marstrand belt*, Sveconorwegian granitoids, 84M/0010; *Särv nappe*, *Ottfjället*, dolerites, $^{40}Ar/^{39}Ar$ data, 84M/0008; *Värmland*, Sundsta granite, Rb/Sr data, 84M/0011; *east Finland*, late Archaean volcanic, plutonic rocks, Rb/Sr ages, 84M/3637; *Lapland*, mafic granulites, U/Pb, Rb/Sr, Pb/Pb, Sm/Nd data, 84M/3636; *Sottunga*, syn- and post-Svecokarelian granitoids, age differences between Rb/Sr whole rock, U/Pb zircon ages, 84M/3638; *Suomussalmi-Kuhmo region*, Archaean granodioritic gneisses, Rb/Sr, Sm/Nd ages, 84M/0012; *European USSR*, Late Precambrian geochron., 84M/0020; *eastern Sayan*, ultramafic alkalic, carbonatite plutons, K/Ar age, new data, 84M/2347; *Yakutia*, kimberlites,

Age determination (*contd.*)
U/Pb zircon age, new data, 84M/2348; *southern Britain*, age and nature of basement, granite Pb, Sr-isotope study, 84M/0555; *England, Cornwall, Gerrans Bay*, metasiltstone, $^{40}Ar/^{39}Ar$ age spectrum, 84M/3642; *Kennack*, gneiss, Rb/Sr isochron age, implications for Lizard complex age, 84M/3641; *Scotland, Angus area*, Rb/Sr evidence for localized uplift in Dalradian, 84M/3639; *Glen Urquhart*, pegmatites from serpentinite-metamorphic complex, Rb/Sr age, 84M/1208; *Isle of Eigg*, pitchstones and felsites, Rb/Sr data, 84M/0014; *Wales, Llŷn Peninsula, Sarn complex* and *Parwyd gneisses*, Rb/Sr whole rock ages, 84M/3643; *Germany, Bavaria, Münchberg massif*, mafic, ultramafic rocks, U/Pb zircon dating, 84M/2087; *Rheinische Schiefergebirge*, metamorphism and folding migration, evidence from K/Ar, Rb/Sr ages, 84M/3270; *Schwarzwald*, Permian volcanites, eruption age, mechanism of Rb/Sr whole rock age distortions, 84M/2340; Permian volcanites, Rb/Sr systematics, 84M/3650; *Austria, Salzburg, Northern Calcareous Alps*, weakly metamorphosed shales, carbonate rocks, interpretation of K/Ar, Rb/Sr data, 84M/3647; *Tauern Window area*, young Alpine dykes, K/Ar, Sr-isotope study, 84M/2341; *Tyrol, Berliner Hütte*, migmatites, Rb/Sr age, 84M/3648; *Italy, Vrica section*, age of Plio-Pleistocene boundary, 84M/3649; *Spain, Biscay* and *Guipuzcoa prov.*, interbedded Cretaceous volcanic/sedimentary rocks, fossil dating, 84M/3645; *Tajo basin*, groundwater, detn. of absolute age, 84M/3645; *Pyrenees, Ansignon granite*, formation, U/Pb evidence, 84M/0016; *Portugal, Sines alkaline complex*, Rb/Sr geochron., 84M/3646; *Canary Islands, Gran Canaria*, shield-building volcanism, magmatic phases, K-Ar ages, 84M/0015; *Cape Verde Island, Maio*, magmatism, K/Ar, $^{40}Ar/^{39}Ar$ data, 84M/2342; *Czechoslovakia, Malé Karpaty Mtns.*, granitoids, Rb/Sr isochron age, 84M/0017; *Greece, Vourinos*, ophiolite, microfossil data, 84M/2101; *Cyprus, Troodos* and *Hatay*, ophiolites, K/Ar ages, 84M/2095; *Bulgaria, Central Srednogorie*, granitic intrusions, K/Ar studies, 84M/1209; *Caucasus Mtns.*, dolerite, granite porphyry dykes, use of Fe Mössbauer spectra, 84M/3629; *Carpathian Mtns., Maramures, massif*, accessory zircon from schist-gneiss complex, U/Pb dating, 84M/1210; *Turkey, western Anatolia*, granite intrusions, K/Ar ages, 84M/0019; *Bitlis massif*, metamorphic rocks, new results, 84M/1131; *Jordan, Wadi Araba area*, Precambrian basement, 84M/0023; *southern Arabian Shield*, Rb/Sr geochron., 84M/0991; *Arabian-Nubian Shield*, oceanic, continental rock Pb data, distrib., U/Pb data, 84M/1212; *Jabal al Wask* and *Jabal Ess*, Sm/Nd data from late Proterozoic ophiolites, implications, 84M/3654; *Persian Gulf*, molluscs from uplifted Holocene beaches, Th/U dating, 84M/2345; *India, Karnataka*, basement gneisses, Rb/Sr, Pb/Pb ages, 84M/2346; Peninsular Gneiss, Dharwar volcanic rocks, Chitradurga granite, 84M/3655; *western Karnataka*, Archaean rocks, Sm/Nd, Rb/Sr ages, 84M/0024; *Kabbaldurga quarry*, allanite, 84M/3656; *Himalayas, Ladakh region, Transhimalaya (Gangdese) plutonic belt*, U/Pb, Rb/Sr study, 84M/3658; *Makalu granite*, effect of initial ^{230}Th disequilibrium on young U/Pb ages, 84M/3657; *east China*, Cretaceous volcanic rocks, isotopic age variations, dating of Cretaceous lower boundary, 84M/3660; *Changbai Mtns.*, Cainozoic volcanic rocks, K/Ar dating, 84M/2349; *Lianhuashan W deposit*, K/Ar dating, 84M/2350; Rb/Sr, K/Ar studies, 84M/2851; *Yenshan region*, Precambrian rocks, Rb/Sr geochron., 84M/3659; *Japan, Fukushima Pref., Yotsukura*, Neogene Tertiary rhyolite, K/Ar age, 84M/0029; *Ryukyu Islands*, corals from marine terraces, ESR ages, comparison with ^{14}C, Th/U ages, 84M/1214; *Shikoku, Kurosegawa tectonic zone*, muscovite from greenstone, K/Ar age, 84M/0028; *Korea, Gyeongsang basin*, granitic rocks, K/Ar ages, 84M/0027; *Indonesia, Banda Sea*, age of, 84M/3619; *Australia*, shales, Nd-isotope anal., evidence for growth of continent, 84M/3665; *NSW, Cobar Lucknow area*, Silurian I-type granodiorite intrusion, basement/cover relations, 84M/3661; *Queensland, Bundaberg, Rockhampton* and *Clermont areas*, Cainozoic volcanic rocks, K/Ar ages, 84M/2352; *Georgetown inlier*, age of D^4, 84M/3662; *Mary Kathleen*, magmatism, skarn formation, U mineralization, U/Pb, Rb/Sr geochron., 84M/0273; *Mount Isa inlier*, superposed volcanism, U/Pb data, 84M/2353; *Western Australia, Kambalda*, greenstones, revised Sm/Nd systematics, 84M/3663; *Mt. Narryer*, 4,100–4,200 m.y. old zircons, 84M/2351; *Yilgarn block*, Archaean crust, growth, Nd-isotope data, 84M/0030; Sm/Nd model ages across margins, 84M/0033; greenstone, zircon age data, 84M/0034; *eastern Yilgarn block*, Archaean gneisses, Sm/Nd, Rb/Sr dating, 84M/0032; *Albany-Fraser province*, Sm/Nd model ages, 84M/3664; *Diemals area*, Archaean crustal evolution, Pb-isotope and reset Rb/Sr ages, implications, 84M/0031; *New Zealand, Mueller Glacier*, recent moraines, revised ages, 84M/1215; *Murihiku terrane*, Glenham porphyry, K/Ar age, 84M/0037; *Fiji, Vanua Vatu* and *Tuvuca Is.*, phosphate deposits, U disequilibrium dating, 84M/3666; *Ponape Island*, alkali basalts, 84M/4436; *Algeria, Ain-Barbar dist.*, hydrothermal alteration of intrusions, K/Ar dating, 84M/1211; *Ethiopia, Middle Awash dist.*, Cindery Tuff, 84M/3651; *Sudan, Jabal Dumbeir*, nepheline syenite-carbonatite complex, Rb/Sr age, 84M/0986; *Egypt, Egyptian Shield*, igneous rocks, Pb-isotope systematics, 84M/0021; *Mali, Adrar des Iforas*, deformation in mylonitic shear zone, influences, 84M/0022; *Nigeria, Nassarawa Eggon* and *Mkar-Gboko*, granite, Rb/Sr data, 84M/3652; *Kenya, north Turkana*, volcanism, K/Ar ages, 84M/1027; *Swaziland, Kaapvaal craton*, bimodal suite in ancient gneiss complex, Sm/Nd age, 84M/2343; *Namibia, Damara belt*, Rb/Sr geochron., 84M/1213; *Damara orogen*, geochron., review, 84M/3291; granites, Rb/Sr data, 84M/3292; radiometric ages, correlation with geog., altitude, use in cooling history reconstruction, 84M/3293; *South Africa, Kimberley, De Beers mine*, East Peripheral kimberlite, K/Ar age, 84M/2344; *Transvaal, Barberton Mtn.*, komatiites, oldest reliable terrestrial $^{40}Ar/^{39}Ar$ ages, 84M/3653; *Canada, British Columbia, Chilcotin*, basalts, 84M/0044; *Ecstall pluton* and *Central Gneiss complex*, U/Pb dates, 84M/1219; *Kootenay Arc*, K/Ar dates, early Tertiary resetting, 84M/0045; *Kuskanax batholith*, U/Pb zircon age, 84M/2360; *Okanogan Lake region*, Palaeozoic(?), Mesozoic, Cainozoic intrusive rocks, Rb/Sr dating, 84M/2359; *Labrador*, metamorphic biotite, hornblende, $^{40}Ar/^{39}Ar$ anal., recognition of extraneous Ar components, 84M/0041; *New Brunswick, Brookville gneiss*, discussion of previous paper, 84M/0039; *Newfoundland, Dunnage zone*, Overflow Pond granite, 84M/2358; *Ontario, Atikokan, Eye-Dashwa pluton*, age of fractures, 84M/1218; *Coldwell complex*, Rb/Sr geochron., discussion of previous paper, 84M/1217; Rb/Sr geochron., 84M/3667; *Chapleau-Foleyet area*, U/Pb geochron., 84M/0042; *McKellar Harbour area*, ultrabasic lamprophyre dykes, Rb/Sr, K/Ar geochron., 84M/0043; *Quebec, Cape Smith fold belt*, Archaean gneisses, Rb/Sr study, 84M/0040; *USA, central* and *southern Appalachian Mtns.*, regional metamorphism, ductile deformation, ages of, 84M/1220; *east-central* and *southern California*, Upper Pliocene, Pleistocene volcanic ash layers, 84M/4418; *San Joaquin basin*, detrital microcline, $^{40}Ar/^{39}Ar$ spectrum anal., use in basin thermal evolution detn., 84M/1226; *Massachusetts* and *Connecticut*, Glastonbury gneiss, 84M/4516; *Montana*, bentonite, Rb/Sr, U/Pb dating, 84M/1221; *Beartooth Mtns., South Snowy block*, Precambrian biotite-granodiorite, prelim. zircon U/Pb dating, 84M/2004; *Quad Creek area*, granulite grade supracrustal assemblages, Rb/Sr age, 84M/2010; *Quad Creek* and *Hellroaring plateau*, Archaean rocks, Rb/Sr, U/Pb ages, 84M/2007; *Montana* and *Wyoming, Beartooth Mtns.*, Archaean rocks, Rb/Sr geochron., 84M/2005; *Nevada, northern Snake Range*, metamorphic monazite, U-Pb-Th ages, 84M/1223; *southern Snake Range*, zircon, U-Th-Pb ages, 84M/1224; *Toana Range*, coexisting biotite, muscovite from 2-mica granite, markedly discordant K/Ar ages, 84M/1222; *New York, Adirondack Mtns., Marcy massif*, anorthosite, Sr/Nd isotope geochron., 84M/2361; *Snowy Mtn dome*, anorthosites, age, Nd-isotope re-evaluation, 84M/0048; *North Carolina, Roan Mtn.*, granulite-facies gneisses, 84M/2363; *Watauga River, Cranberry* and *Crossing Knob*, gneisses, Rb/Sr ages, 84M/2362; *Ohio, Green Township*, neoformed Palaeozoic adularia, 84M/0049; *Tennessee*, radiometric ages of rocks, 84M/2364; *Texas, Queen City formation*, interlayered glauconites, K/Ar dating, 84M/0050; *north west Utah*, metamorphic muscovite from Precambrian quartzite, K/Ar age, 84M/1225; *Virginia, Blue Ridge*, anorthosites, charnockites, granulites, age,

Age determination (*contd.*)
Nd, Sr-isotope evidence, 84M/3668; *Mexico*, porphyry Cu deposits, 84M/0219; *Peru, Coastal batholith, Arequipa segment*, K/Ar age, correlation with regional tectonic events, 84M/3669; *Quellaveco*, granodioritic rocks, assoc. porphyry Cu deposit, K/Ar ages, 84M/1227; *Auckland Islands, Musgrave Penin.*, and *Carnley Harbour*, volcanoes, granite basement, K/Ar age, 84M/1216; *Antarctica, Enderby Land, Fyfe Hills*, early Archaean rocks, 84M/2357; *Gaussberg*, leucitite volcanic cone, K/Ar data, 84M/0038; *South Shetland Islands*, Jurassic to Quaternary volcanism, apparent lateral migration, K/Ar geochron., 84M/2354; *King George Island*, 'Jurassic volcanics' and 'Andean' intrusions K/Ar ages, 84M/2355; Late Cretaceous-Late Oligocene calc-alkaline suite, K/Ar ages, 84M/2356; *North Sea, Beatrice oilfield*, dating of diagenesis, use of fluid inclusions, new method, 84M/3640; *DSDP site 516*, basalts, $^{40}Ar/^{39}Ar$ age spectra, 84M/3626;
—, fission track, use of zircon, sphene, reappraisal, 84M/1201; zeta age calibration, 84M/3624; *Faeroe Islands*, zeolites, 84M/0013; *Carpathians, West Carpathians*, accessory minerals of crystalline rocks, application of method, 84M/0018; *Himalayas*, kyanite, 84M/0025; *India, Bihar, Pokharia mine*, annealing expts. in biotite, 84M/4234; *Bolivia, eastern Andes*, erosion, apatite fission track ages, 84M/2365
—, geochronology, La-Ce, new dating method, 84M/3621; basic review, guidelines for planning, 84M/3632
—, palaeodosimetry, props. of pyrite, 84M/0002; method for detn. of radioactive element deposit ages, 84M/3627
—, ^{14}C dating, use of liquid scintillation, 84M/3297; Li_2C_2 method, investigation, 84M/3625; *Japan, Ryukyu Islands*, corals from marine terraces, comparison with ESR, Th/U ages, 84M/1214; *New Zealand, Marius Valley*, late Pleistocene glacial sequences, 84M/0035; *Canada*, Geol. Survey dates, 84M/0047; *south Ontario*, marl lake sediments, implications for, from water isotopic, geochem. compn., 84M/0660; *USA, South Dakota* and *Wyoming, Black Hills*, regional carbonate aquifer, application to process, rate of dedolomitization, 84M/3017
—, radiometric, *Czechoslovakia, central* and *southern Slovakia*, alkaline basalts, 84M/1166; *New Zealand, Warwick Valley*, sedimentation and glacial chronology, 84M/0036
—, thermoluminescence, fine grained materials in loess, 84M/0005
Aikinite, *Scotland, Tomnadashan*, inclusions in tetrahedrite, 84M/1483
Ajoite, *USA, Arizona, New Cornelia mine*, description, 84M/4608
Akaganéite, *Red Sea*, micro crystals in brine, 84M/0837; *Atlantis II Deep*, in hot brine, amino acid uptake by synthetic, 84M/2971; *Philippine Sea*, constituent of Mn nodules, 84M/4090
Åkermanite, synthetic $Ca_2CoSi_2O_7$, cryst. struct., 84M/0159; inclusions in Czochralski grown diopside crystals, 84M/0456; synthetic Sr-åkermanite, crystal structure, 84M/1363
Alabandite, *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Japan, Gumma Pref., Seta dist.*, in bedded Mn ore deposit, 84M/3893
Albite *v.* feldspar
Albitites, *Scotland, Inverness, Great Glen fault area*, 84M/3497; *France, Aveyron, Brousse-Broquies basin*, example of U mineralization in, 84M/0223
Algae, *Sri Lanka, Mannar Island*, geochem. of Au, Pt in algal mats, 84M/2973; *China, Hebei, Xuanlong Fe mine*, blue, effect on Fe enrichment, 84M/2598
ALGERIA, *north central*, 'halokinematics' and interplate tectonics, 84M/1195; *Ahaggar, Gour Oumelalen region*, orthoferrosilite and assoc. rocks, 84M/0779; *Ahaggar area, Pharusian chain*, stratigraphy, magmatism, place in progressive regional metamorphism of African Upper Precambrian, 84M/3543; *Aïn-Barbar dist.*, hydrothermal alteration of intrusions, K/Ar dating, 84M/1211
Alkaline complexes, *Portugal, Sines*, Rb/Sr geochron., 84M/3646; *Canada, Ontario, Coldwell complex*, gravity study, petr. significance, 84M/3391; *Quebec, St. Honoré*, evolution, 84M/1997
—, intrusions, *Canada, British Columbia, Coryell batholith*, Th, U in, 84M/2925
—, magmatism *v.* magmatism
—, rocks, ultramafic, distrib. of Sr, Ba, *RE* elements in mins., 84M/0551; *west Greenland*, Mesozoic undersaturated, *RE* element abundancies, 84M/4102; *Sweden, Norra Kärr*, pluton, time of emplacement, 84M/3634; *USSR, eastern Sayan*, plutons, K/Ar age, new data, 84M/2347; *France, Velay*, behaviour of trace-, major elements in, comparison with Puy area, 84M/1721; *Italy, Roccamonfina volcano*, K-alkaline, distrib. and behaviour of Li in, 84M/4108; *Vulsini, Montefiascone area*, magmatic, chem. evolution of clinopyroxenes in, 84M/3138; *India, Eastern Ghats orogenic belt*, lithology, geochem., geochron., 84M/2030; *India, Andhra Pradesh, Elchuru*, Proterozoic mafic, geochem., 84M/2029; *Japan, Mt. Jônen-dake area*, occurrence, petr., chem., 84M/3508; *north east Mali*, Permian undersaturated, discovery, relation to rifting along West African craton, 84M/3369
—, volcanism *v.* volcanism
—, volcanoes *v.* volcanoes
Alkremite, *South Africa, Jagersfontein*, xenoliths, texture, min., 84M/0989
Allactite, *USA, New Jersey, Franklin* and *Sterling Hill*, occurrence, anals., 84M/1886
Allanite, light *RE* element zoning in during granitoid fractionation, 84M/4074; *Greenland, USSR, South Africa*, isomorphous substitutions in, 84M/0771; *India, Karnataka, Kabbaldurga quarry*, age of, 84M/3656; *Japan, Kyoto Pref., Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *Shikoku, Takanawa Peninsula*, pegmatite occurrence, 84M/4574
Alleghanyite, *USA, North Carolina, Bald Knob*, min., phase equilibria, 84M/3121
Allophane, *Western Australia, Yilgarn block*, cement for saprolites, grits, silcretes, 84M/1095; *Argentina, Trenque Lanquen* and *Rivadavia Counties*, in 1932 volcanic ash, ident., 84M/0131
—, imogolite, synthetic, props., synthesis, possible uses, 84M/1272; influence of citric acid on natural formation, 84M/3722
Alluaudite, *England, Cornwall, Megiliggar Rocks*, occurrence, microprobe anals., cell, 84M/1912
Alnöite, *Sweden, Alnön complex*, dykes, palaeomagnetic props., 84M/2287
Alpha emission, recoil effects on Rn release, isotopic disequilibrium, theory, 84M/0389
ALPS, *central*, white K-mica polymorphs, regional distrib., phengite content, 84M/1848; *north-west*, deep structure, implications from balanced cross sections, 84M/1948; *western*, northern hinge zone of arc, 84M/0931; *Aar granite*, strain pattern, 84M/1972; *Gran Paradiso basement*, high-*P*, low-*T* metamorphism, 84M/2261; *Gran Paradiso region*, Triassic dolomite and cargneule, tectonic significance, 84M/3476; *Northern Calcareous Alps*, stratabound Mn deposit, possible origin, 84M/2589; *Pennine Alps, Gruf complex*, garnet-cordierite-sillimanite gneisses, metamorphic evolution, 84M/3534; *Penninicum*, metagabbros, petr., compn., 84M/3532
Alstonite, *Poland, Tajno intrusion*, in carbonatite, 84M/0972
Altaite, *India, Kolar*, new locality, anal., 84M/3883
Alum, $(NH_4)_{1-x}K_xAl(SO_4)_2.12H_2O$, photoelastic studies, 84M/4539; *Italy, Tuscany, Cetine mine* K-, occurrence, 84M/4568; *Australia, Queensland, Ipswich area*, pockets and seams in trachyte breccia, 84M/2616
Alumina, available in bauxite, calculation during exploration, 84M/0229; effect of MgO on sintering characteristics, 84M/0411; single-crystal Al_2O_3, O self diffusion coefficients, effect of surface condition on, 84M/1581; thermochem., 84M/1583; γ-Al_2O_3, spinel phase in kaolin-mullite reaction series, structural characterization, 84M/2742; reversed contents of orthopyroxenes in equilibrium with forsterite, spinel, 84M/4013; α-, thermal expansion from 10–200°K, 84M/4533; solid, specific heat, 84M/4534
Aluminate ions, $Al(OH)_4^-$, infinite dilution diffusion coefficient at 25°C, 84M/0402
—, tetrahedra, polymerization in glasses, melts, aqueous solns., 84M/2497
Aluminium, Al-rich pods in ophiolite peridotites, distrib., 84M/0228; flux of dissolved between sediments/overlying waters, calculation using $Al(OH)_4^-$ infinite dilution diffusion coefficient, 84M/0402; extractable amount in settling ponds, prediction, 84M/1516; spectrophotometric detn. of traces in sea-water, modified extraction procedure, 84M/2416; coordination in glasses, aqueous solns., comments on Al avoidance principle, 84M/2497; influence on Fe-oxides, dissolution of synthetic Al-goethite in 6M HCl, 84M/2690; translocated inorganic form in Bs podzol, extraction, 84M/3727; polycations, interactions with clays, 84M/3739; tetrahedrally/octahedrally coordinated in phyllosili-

Aluminium (*contd.*)
cates, distinction by NMR spectroscopy, 84M/3807; native, physicochem. formation conditions in igneous magmas, 84M/4093; estimation in Al-substituted goethites from unit cell dimensions, 84M/4256; mobility, link with destruction of secondary porosity in sedimentary rocks, 84M/4445; future in USA and World economy, (book), 84M/1256; *west Greenland*, interlayer substituent in biotite, 84M/3155; *India*, *Tamil Nadu*, *Salem*, isomorphous substitution in goethite in bauxite, 84M/1880; *north east Atlantic Ocean*, *25°N to 35°N*, distrib., 84M/0645
—, compounds, Al-oxide surface coatings, influence on oxidation, sorption of arsenite by MnO_2, 84M/0097; synthetic oxide, hydroxide, oxyhydroxide, comparison with natural French equivalents, 84M/3989; polycrystalline Al_2O_3 fibres, preparation, props., 84M/2685; fluoro-hydroxy and hydroxy-Al compounds thermal stability of cross-linked montmorillonite from, 84M/3720; Al-hydroxides, organic anion adsorption, bonding mechanisms, 84M/1310; effect of acetate, oxalate, citrate anions on precipitation, 84M/1311; AlF_3, $AlCl_3$, thermochem., 84M/1583; Al_2GeO_5, cryst. data., 84M/0367; *France*, *Canainettes*, oxy-hydroxides in bauxitic profile, min. anal., 84M/3758
—, ions, isomorphous substitution in alunite structure, 84M/0439; Al^{3+}, diffusivity in jadeitic melt, 84M/2636; distrib. in chrome spinel in equilibrium with silicate melt, influence of Fe^{3+}, 84M/2686; free, in *Indonesian* kaolin, effect on surface props., 84M/2464
—, isotopes ^{26}Al, concentration of cosmogenic in Isna meteorite, 84M/1816; ^{26}Al in terrestrial/extraterrestrial matter, first accelerator mass spectrometry measurement, 84M/3630
Aluminosilicate gels *v.* gels
Alumotantite, *USSR*, *Kola Peninsula*, syngenetically formed with stibiotantalite, 84M/0841
Alunite, isomorphous substitution of Al^{3+}, Ga^{3+} ions in structure, 84M/0439; *Czechoslovakia*, *east Slovakia*, possible occurrences in neovolcanites, 84M/0296; *Bulgaria*, *Madžarovo deposit*, vein-type, opt., morph., chem., 84M/0865
—, deposits, *USA*, *Utah*, *Marysvale volcanic field*, replacement and vein-type, origins, exploration significance, 84M/3929
Alunogen, *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568
Amarantite-like phase, *USSR*, *D'yakhtardakhskoe deposit*, unusual Fe-sulphate in cryogenic oxidation zone, data, 84M/0864
Amber, gem trade lab. notes, 84M/0498; *Baltic area*, accumulation in 'blue earth', 84M/1654
Amblygonite, gemmological props., ident., discovery, 84M/1647; *England*, *Cornwall*, *Megiliggar Rocks*, occurrence, microprobe anals., 84M/1912
Amesite, orientations of OH-bonds, comparison of diffraction methods, electrostatic calculations, 84M/1304
America v. North America
Americium compounds, AmO_2, thermal expansion data, 84M/4537
—, isotopes, ^{241}Am in soil, measurement by L X-ray/γ-ray spectrometry, 84M/0311; *USA*, *Narragansett Bay*, coastal mobility of fallout produced, model and real data, 84M/0321
Amides, interactions with halloysites, min. factors affecting complex formation, 84M/3719
Amines, organic, cause of room-*T* luminescence in kaolinite, 84M/3740
Amino acids *v.* acids, amino
Ammolite, gemmological props., ident., discovery, 84M/1647
Ammonia, removal from drinking water by clinoptilolite tuff, 84M/1532; adsorption by clinoptilolite, 84M/2284
Ammonium compounds, molten $(NH_4)_2SO_4$, reactions with swelling clays, 84M/3755
Amosite *v.* amphiboles, amosite
Amphiboles, microstructures, analogies with pyroxene phase transformations, 84M/0166; weathering, soil grain observations, 84M/0462; synthetic on join Mn_7^{2+} $Mg_{7-x}[Si_8O_{22}](OH)_2$, phase characterization, 84M/1617; ident. of OH bands in IR absorption spectra, 84M/3149; H-isotope exchange between amphibole and water, 84M/4025; *USSR*, *Aldan Shield*, from peridotite massifs, 84M/0789; *Azov area*, *Chernigovo carbonatite complex*, peculiarities of chem. compn., crystal morphology, 84M/1846; *Ukrainian Shield*, coexisting with biotite, relationship between Fe content, H-isotope compn. in, 84M/0522; *France*, *Massif Central*, in lavas, $^{87}Sr/^{86}Sr$ ratios, petrogenetic/geochem. problems, 84M/1719; *Italy*, *Alps*, *Sesia-Lanzo zone*, from eclogitised rocks, crystal-chem. evolution, 84M/3145; *Australia*, *NSW*, *Glenrock Station*, subcalcic Fe-rich in meta-dolerites, 84M/1844; *Canada*, *Newfoundland*, *Topsails* and *St Lawrence complexes*, magmatic-subsolidus and oxidation trends in compn., 84M/4226; *Quebec*, *Renzy Lake*, from ultramafic complex, 84M/0788; *USA*, *Adirondack Mtns.*, in mafic granulites, 84M/0787
—, actinolite, particles in air filters, size and shape, 84M/0310; exsolution in hornblende in high-*P* metamorphism, 84M/3146; *Japan*, *Nara Pref.*, *Godaimatsu mine*, ferro-, texture, props., anal., 84M/4225
—, alkali, *Greenland*, *Motzfeldt centre.*, from nepheline-syenites, microprobe anals., 84M/1841
—, amosite particles in air filters, size and shape, 84M/0310; asbestos, cation site population, 84M/2518
—, anthophyllite, high-resolution TEM study, 84M/0775; asbestos, cation site population, 84M/2518
—, asbestos *v.* asbestos
—, calcic, in ultramafic rocks, stability, compn. relations, 84M/1616
—, crocidolite, particles in suspension, surface-change detn., 84M/0061; asbestos, cation site population, 84M/2518
—, cummingtonite, particles in air filters, size and shape, 84M/0310; exsolution in hornblende in high-*P* metamorphism, 84M/3146
—, dannemorite, cation distrib., detn. by IR, Mössbauer studies, 84M/1368
—, grunerite, phase relations in high-grade metamorphic Fe-formations, 84M/1613; *Japan*, *Shiga Pref.*, *Ishibe mine*, occurrence, anals., props., 84M/4221; *Kamaishi mine*, *Shinyama ore deposit*, occurrence, 84M/1843
—, holmquistite, *USSR*, *Aldan Shield*, *Tarynnakh quartzite*, opt., chem., 84M/0790
—, hornblende, standards, ^{40}Ar-^{39}Ar values, high precision intercalibration, 84M/0001; amphibole exsolutions in from high-*P* metamorphism, 84M/3146; *Poland*, *Kłodzko-Złoty Stok massif*, *Laski*, from pegmatite, opt., IR, chem. anal., 84M/1845; *Germany*, *Bavaria*, *Acherwiese*, occurrence, 84M/3599; *Spain*, *Murcia*, *Tallance*, basaltic, chem. study, 84M/3147; relationship between *d*-spacings and chem. compn., 84M/3148; *India*, *Andhra Pradesh*, *Chimalpahad complex*, from anorthosite, anals., petr., 84M/3179; *Mexico*, *Querétaro*, inclusions in opal, 84M/0489
—, riebeckite, *Western Australia*, *Hamersley*, formation conditions in Dales Gorge member Fe-formation, 84M/0465
—, richterite, K and Na fluor-richterite, high-*T* crystal chem., comparison with tremolite, 84M/2519
—, sodic, exsolution in hornblende in high-*P* metamorphism, 84M/3146; *Canada*, *New Brunswick*, *Bathurst area*, zoned, indicator of changing *P*, *T* during tectonism, 84M/4227
—, tirodite, cation distrib., detn. by IR, Mössbauer studies, 84M/1368; *Japan*, *Aichi Pref.*, *Otowa-cho*, occurrence, 84M/4577
—, tremolite, *Japan*, *Hokkaido*, Horokanai ophiolite, soda-, in dunite, 84M/3144
Amphibolites, *west Greenland*, K-Rb ratios in, metasomatic control, 84M/1767; *Norde Strømfjord area*, co-existing mafic minerals in, chem., metamorphism conditions, 84M/1850; *Norway*, *Setesdalsheiene*, petr., 84M/3523; *Sulitjelma*, possibly part of Lower Palaeozoic ophiolite complex, 84M/2125; *Hungary*, *south Transdanubia*, in crystalline complexes, origin, 84M/3536; *India*, *Rajasthan*, *Pipela area*, occurrence of pillow structure, metahyaloclastic breccia in, 84M/3549; *Canada*, *British Columbia*, *Mica Creek*, garnet-, phase equilibria, geobarometry, geothermometry, 84M/1148; *USA*, *North Carolina*, *Chunky Gal Mtn. complex*, petr., 84M/1015
Analcite *v.* zeolites
Analytical methods, *South Africa*, used at Mintek, manual, 84M/1242
Anatase, tabular, neoformation of, SEM study, 84M/1057; *Belgium*, *Daverdisse*, in quartzite, quartz veins, 84M/1483; *Germany*, *Fichtelgebirge*, new deposit, description, 84M/2298; *Italy*, *Piemont Alps*, *Baceno*, bicoloured crystals, 84M/4566; *Japan*, *Kyoto Pref.*, *Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *USA*, *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320
Andalusite, bacterial breakdown, 84M/0361; *USSR*, *Tuva*, *Ular granitoid massif*, formation in contact aureole, 84M/1829; *Czechoslovakia*, *Moravia*, in peraluminous Eisgarn type granites, magmatic genesis,

Andalusite (*contd.*)
84M/3356; *Bulgaria, Markova Trapeza deposit*, in pegmatite, 84M/0777; *Brazil, Ouro Preto, Capao mine*, mining, details, 84M/0490; *south east Peru*, phenocrysts in ash-flow tuffs, 84M/2954
—, deposits, *South Africa, Groot Marico, Kleinfontein*, evaluation, 84M/1509; *Thabazimbi*, evaluation of drill cores, bulk sample, 84M/0295
Andaman Islands v. India
Andersonite, luminescence at 4·2K, 84M/3573
Andesite, geochem. reference sample JA-1, detn. of major/minor elements by ICP spectroscopy, 84M/3065; *Italy, Trento, Val Fersina*, K-rich overlying rhyodacitic ignimbrites, chem., anals., 84M/0964; *Greece, Lakmon Mtns.*, Triassic, differences in primary geochem. and sheet silicate alteration products, 84M/0562; *Japan, Daisen volcano*, $^{87}Sr/^{86}Sr$ ratios in, 84M/2906; *Honshu, Misasa dist.*, calc-alkali, crystallization trend of Cr-spinel in, 84M/0829; *Kagoshima Pref., Katadomari*, plagioclase, pyroxenes in lava flow, effects of crystal growth rate on compn., 84M/1000; *Nohi*, basaltic, in Cretaceous rhyolite mass, volcanic activity, 84M/4387; *Setouchi belt*, orogenic, clue to origin from Nd, Sr systematics of volcanic rocks, 84M/2902; *Mauritius, Port Louis area*, petr., 84M/0990; *Canada, Ontario, Confederation Lake area*, in repetitive cyclical volcanic sequences, geochem., 84M/1735; *Quebec, Amulet formation*, silicified, causes, effects, 84M/1431; *Pacific Ocean, Galapagos spreading centre, 85°-86°W*, volatiles in, 84M/2916
Andesitic rocks, *Indonesia, Sulawesi, Tondano River*, weathering products, 84M/2489
Andes Mountains v. South America
Andorite, microprobe data, 84M/3209; *Sweden, Hällefors region*, probable occurrence with Ag minerals, 84M/1436; *Czechoslovakia, Třebsko deposit*, with fizelyite, miargyrite in ores, anals., 84M/0856; *Bolivia*, crystals, new find, 84M/4571
–, group, structural implications from ramdohrite structure, 84M/0194
—, -like minerals, new data, proposed rational nomenclature, 84M/0855
Andosols, *Italy*, min., origin of clay fraction, 84M/0139
Anglesite, *England, Cornwall, Greystone quarry*, with hemimorphite, aurichalcite, 84M/2294; *Derbyshire, Ball Eye quarry*, occurrence, 84M/2292; *Japan, Kyoto Pref., Tokonagekannon*, morphology, X-ray data, 84M/4595; *Morocco, Touissit*, faked red crystals, 84M/4569
ANGOLA, basal conglomerate in West Congolan geosyncline, glacial origin, 84M/4455; *Matala region*, charnockitic rocks, petr., 84M/3545; *Mayombe belt*, evidence from ophiolitic complexes for belt formation, new geotectonic interpretation, 84M/3459
Anhydrite, with Sr, dissolution, thermodynamic and exptl. study, 84M/0363; PO_3^{2-}, SO_3^- radicals, hyperfine structure and dynamics, 84M/1395; Proterozoic, evidence from for S-isotope partitioning in Precambrian oceans, 84M/2834; *USSR*, differences between hypogene and sedimentary, 84M/4269; *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270; *USA, Indiana, Salem*, relict in celestite-containing geode rinds, 84M/1904; *Pacific Ocean, Costa Rica rift*, occurrence, origin, 84M/2180
Ankaramite, *Mauritius, Port Louis area*, petr., 84M/0990
Ankerite, *Austria, Radmer-Buchegg* and *Erzberg mines*, evidence for superstructuring in, 84M/3846; *India, Karnataka, Chiknayakanhalli dist.*, occurrence, anals., DTA, 84M/4275
Annabergite, *Spain, Sierra Nevada area*, with gersdorffite, glaucodot, new occurrence, 84M/3212
Anorthite *v.* feldspar
Anorthoclase *v.* feldspar
Anorthosite, *Norway, Hidra massif*, with charnockite, Pb-isotope study, 84M/2998; *USSR, Dzhugdzhur Range*, genetic connection with apatite-ilmenite-titanomagnetite ores, 84M/0982; *Kolvits* and *Kalar Massifs*, pyroxenes from, 84M/3141; *India, Andhra Pradesh, Chimalpahad complex*, plagioclases, hornblendes from, anals., petr., 84M/3179; *eastern Canadian Shield*, Nd, Sr isotope evidence for geochem. discontinuity in Proterozoic mantle, 84M/2777; *Canada, Ontario, Bad Vermillion Lake complex*, Archaean, origin, evidence, 84M/1149; *USA, New York, Adirondacks, Marcy massif*, Sr,Nd isotope geochron., geol. hist., origin, 84M/2361; *Snowy Mtn dome*, origin and age, Nd-isotope re-evaluation, 84M/0048; *Willsboro mine*, shallow emplacement, O-isotope evidence from wollastonites, 84M/2843; *Virginia, Blue Ridge*, age, origin, Nd, Sr-isotope evidence, 84M/3668
ANTARCTICA, Pb in recent snow, two centuries old firn, prehistoric ice, 84M/2623; chondritic meteorites, cosmogenic records in, 84M/3095; meteorites, anomalously old $^{40}Ar/^{39}Ar$ ages, 84M/3096; pyroxenes from leucite-bearing and related assemblages, chem. significance, 84M/3140; assoc. sulphate evaporites, stromatolitic carbonates, glacial sediments, comparison with Australian, 84M/3490; *Alexander Island*, sedimentary dykes, pipes, structures in Mesozoic sediments, 84M/1101; geol. of LeMay group, 84M/4507; *Bransfield Strait*, ikaite, crystal structure refinement, 84M/1400; *Antarctic Penin., southern Bransfield Strait*, geol. of islands, 84M/4333; *Enderby Land, Fyfe Hills*, early Archaean rocks, geochron., structure, metamorphism, 84M/2357; *Napier complex*, geochem. of Precambrian gneisses, 84M/3004; monazites from polymetamorphic rock, Pb-isotope compn., colour, microstructure, 84M/4080; *Field Islands area*, metamorphic rocks, geochron., evolution, 84M/3554; *Gaussberg*, leucitite volcanic cone, age, mode of formation, 84M/0038; *Graham Land, Nordenskjäld formation*, Upper Jurassic radiolarian mudstone, tuff sequence, 84M/1100; *King George Island, Marion Cove area*, geol., Teriary age for supposed Jurassic lavas, 84M/1005; *Marie Byrd Land* Cainozoic mafic lavas, Nd-Sr isotopic studies, source for continental alkali basalts, 84M/1732; *North Victoria Land* Cambrian, Ordovician conodonts, tectonic significance, 84M/4621; *eastern Palmer Land*, granitic plutons, deformation, 84M/1996; *northern Prince Charles Mtns.*, mafic igneous rocks, geochem., 84M/4116; *Shackleton Range*, metamorphic complex, geol., 84M/1146; *Fuchs Dome* and *Herbert Mtns.*, stratigraphy, structure of Lagrange Nunataks, 84M/4506; *Haskard* and *Otter Highlands*, metamorphic rocks, stratigraphy structure, 84M/1147; *South Georgia area, Shag Rocks*, geol., possible regional correlations, 84M/1145; *South Victoria Land, Taylor Valley area*, desert varnish on dolerite, sandstone, nuclear microprobe and ^{57}Fe Mössbauer study, 84M/2978
ANTARTIC OCEAN, extraterrestrial particles, chem., isotopic study, 84M/3116
Anthoinite, *Australia, Tasmania, Kara mine*, with mpororite pseudomorphous after scheelite, 84M/4255
Anthophyllite *v.* amphiboles, anthophyllite
Anthraxolite, *USSR, Ukraine, Bobrikovsky deposit*, from polymetallic lodes, genetic significance, 84M/2571
Anticlines, *Ireland, Co. Cork, Church Bay*, development and cleavage geometry, 84M/4312
Antigorite *v.* serpentine
Antimonite *v.* stibnite
Antimony, traces in soils, sediments, simultaneous detn. with As, Bi by ICP emission spectrometry, 84M/2438; behavioural synchroneity with Au during basic magma evolution at depth, 84M/2863; reflected light study, 84M/3568; native, physicochem. formation conditions in igneous magmas, 84M/4093; *England, Devon, Meldon*, native, occurrence in aplite, 84M/4254
—, deposits, *France, Brioude-Massiac dist.*, fluid inclusion study, 84M/3875; *Italy, southern Tuscany*, exploration for, 84M/1811; *China*, anomalous gas-liquid inclusions in gypsum from, genesis, 84M/4268; *Xikuangshan*, geol. characteristics, 84M/3890
Antlerite *Austria, Rauris Valley*, in Au tailings, 84M/3607
Apatite, crystallites, new mode of growing, 84M/0440; detn. of light *RE* elements in by XRF after anion exchange extraction, 84M/2440; formation from calcite and RNA, 84M/2709; beam damage in the electron microscope, 84M/2725; fish-bone, O-isotope variations in phosphate of, 84M/2839; crystallization in sea-water, effect of time, 84M/3999; varieties of metamorphic origin, comparison of typomorphic props., 84M/4280; *England, Cornwall, Megiliggar Rocks*, occurrence, microprobe anals., 84M/1912; *USSR, Aldan region, Seligdar deposit*, crystals, orientation, peculiarities of formation, 84M/0875; *Germany, Clara mine*, new find, 84M/4559; *Austria, Kamp Valley*, from 'biotite schist', anals., 84M/3158; *Bulgaria, Rosen ore field*, thermometry, 84M/1417; *West Carpathians*, U content in accessory grains, petrogenetic aspects, 84M/0530; *Yugoslavia, central Croatia* and *west Slavonia*, accessory in Middle Miocene tuffs, 84M/4279; *Mongolia*, in magnetite-apatite rock, *RE* element

Apatite (*contd.*)
partition coefficients, 84M/4079; *Tanzania, Umba Valley*, cat's-eye, new gemstone variety, 84M/0497; *South Africa, Gravelotte*, blue-green, chem., 84M/0874; *USA, Maine*, occurrences, brief descriptions, 84M/2315; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Mexico, continental margins*, present day formation in sediments, 84M/0612
—, -bearing rocks, *USSR, Aldan, Seligdar deposit*, apatite-forsterite-carbonate rocks, min., features of genesis, 84M/3504
—, chlorapatite, synthetic, substitution and inclusions of Mn, Ce, U, Th traces, 84M/1601
—, collophane, carved snuff-bottle, description, 84M/0501
—, francolite, sedimentary, origin from S-, C-isotope compn., 84M/2841
Apatite ore, *RE* element differentiation at outer contacts of postmineral dykes, 84M/4078; *USSR, Yakutia, Seligdar deposit, RE* mineralization in, 84M/0531
Aphthitalite, *China, Hubei prov., Q basin*, in Eogene saline deposit, 84M/4270
Aplite, *England, Devon, Meldon*, Nb-Ta and other rare-element minerals in, 84M/4254; *Poland, Lisiec hill*, andalusite-tourmaline, 84M/0974; *India, Haryana, Narnaul*, deformation structures in, 84M/1134
Apophyllite, *South Africa, Phalaborwa*, crystals, new find, 84M/4571
Appalachian Mtns. v. United States of America
Apparatus, heat-sealable pouches for rock core preservation, 84M/0055; rotating magnetic field for chondrite meteorite, mineral separations, 84M/0063; Zr crucibles for automatic fusion of samples and Na-peroxide, 84M/0065; automatic sample-changer for isotope-source NAA, 84M/0072; jig for rapid, precise smear method of oriented clay mount preparation, 84M/0091; portable radio-determining radiometer for mineral discrimination, 84M/0245; multiple-anvil-sliding-system for generation of high *P* to 10 GPa, 84M/0339; jacketing of specimens in high *T, P* rock deformation expts., 84M/0344; viscometer for clay viscosity measurements at high-*P*, 84M/1289; automated X-ray diffractometer for detection, ident. of minor phases, 84M/2393; automated microphotometer for spark-source mass spectrometry, 84M/2446; GEOTHERM-1 thermal conductivity meter, results of lab. cross-checks, possible improvements, 84M/3592; motorized grinder for soil thin sections, 84M/3670; automated system for heating, spectral measurements in diamond-window, high-*P* cell, 84M/3677; positron sensitive XRD system for high-*P* expts., 84M/3678; IR cell for vacuum and high-*T*, 84M/3717; crystal monochromators, polarization ratio, IUC Commission survey, 84M/3788; Gandolfi camera, geometry of diffraction, possible design improvements, 84M/3789; divided bar and 'Quick Thermal Meter' for solid rock thermal conductivity detns., comparisons, 84M/4549
Arabia v. Saudi Arabia
ARABIAN PENINSULA, Fe-ore deposition in space and time, 84M/0263
Aragonite, effect of mechanical energy on finely ground, 84M/0433; crystal chem., 84M/1911; thermodynamic solubility product, dependence on ionic models, 84M/3994; solubility in sea-water at various salinities, *T, P* = 1 atm., 84M/3996; *Scotland, Islay*, recent submarine cement in gravel, 84M/1064; *Germany, Ramsbeck*, occurrence, 84M/4560; *St Andreasburg*, light blue, occurrence, 84M/1173; *Japan, Irazuyama*, occurrence, X-ray data, 84M/4580; *Nagasaki Pref., Iki Island*, occurrence, X-ray data, 84M/4600; *Canada, North West Territories, Wopmay orogen*, primary precipitation, evidence from Proterozoic dolomite, 84M/3494; *USA, Arizona, Camp Verde*, pseudomorphs after glauberite, 84M/2322
Aragonite–calcite, transition, 84M/1596
Archaean rocks, banded Fe-formation-hosted Au deposits, epigenetic origin, 84M/3861; *south west Greenland*, metasedimentary, geochem., 84M/4150; *east Finland*, granodioritic, major and tr. element geochem., crustal evolution, 84M/2999; *north west Scotland* and *southern India*, granulites, element depletion in, 84M/1773; *India, western Karnataka*, Sm/Nd, Rb/Sr ages, 84M/0024; *China, eastern Hebei Prov.*, granulite gneisses, *RE* element geochem., tectonic implications, 84M/4153; *Qianxi County*, granulites, min., *P-T* conditions of crystallization, 84M/1138; *Western Australia*, filamentous fossil bacteria from, 84M/2338; *Agnew Dome*, acid intrusive, geochem., crustal origin, 84M/4115; *Yilgarn block*, crust, growth of, 84M/0030; *Diemals area*, crustal evolution, Pb-isotope and reset Rb/Sr ages, implications, 84M/0031; *South Africa, Barberton Mtn. Land, Fig Tree group*, pseudo-oolites in, new interpretation, 84M/2217; *Canada, Superior Province*, nepheline syenite plutons, 84M/4394; *Superior Prov., Gamitagama Lake complex*, igneous rocks, geochem., petrogenesis, 84M/4396; *north Labrador*, meta-basic dyke, Nd, Sr isotopic crustal contamination patterns, 84M/4124; *Ontario, Bad Vermilion Lake complex*, anorthosites, origin, evidence, 84M/1149; *English River subprovince*, granitoid gneisses, O isotope geochem., 84M/4128; *Gutcher Lake*, greenschist facies of, 84M/2238; *Kenora area*, granitoid plutons, petrogenesis, 84M/4395; *Wawa area*, volcanic-exhalative system adjacent to trondjemite stock, 84M/4512; *Quebec, south-central Abitibi belt* tectonic evolution, geomechanical model, 84M/1998; plutonic, metamorphic evolution, geotectonic model, 84M/1999; *Rouyn-Noranda dist.*, mafic metavolcanics, major element mobility, discussion, 84M/4126; *USA, Montana, Beartooth Mtns., Long Lake area*, field, petr. relationships, 84M/2006; *Quad Creek* and *Hellroaring plateau*, geochem., 84M/2007; *Montana* and *Wyoming, Beartooth Mtns.*, geochem., Rb/Sr geochron., 84M/2005; *Antarctica, Enderby Land, Fyfe Hills*, geochron., structure, metamorphism, 84M/2357
—, terrains, *central eastern Brazil*, review, 84M/4346
Archaeological prospecting, *Iraq, Tel-Kutha*, application of geochem., geophys. techniques, 84M/0331
Ardaite, *Sweden, Gruvåsen*, second occurrence, data, 84M/0861
ARGENTINA, Mg-bearing calcites in Pampean soils, occurrence, 84M/0147; *Catamarca, Hombre Muerto*, Ta-Nb minerals in veins in gneisses/schists, 84M/0278; *Iglesia Dept., Rodeo zone*, Caradocian pillow lavas, petr., 84M/1017; *San Jorges basin*, crude oils, correlation, 84M/0685; *San Juan prov., Yerba Loca formation*, pillow lavas, petr., 84M/2051; *San Luis prov., Garrapta quarry*, basic igneous rock, suitability for use in concrete, 84M/1018; *Trenque Lanquen* and *Rivadavia counties*, allophane in 1932 volcanic ash, 84M/0131; *Tucumán, Puerta Quemada*, syngenetic Mn nodules in sandstones/argillites, probable origin, 84M/0549
Argentite, *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485
Argon, incomplete extraction of radiogenic from alkali feldspar for K-Ar dating, 84M/3622; *Canada, Fairmont Hot Spring*, in fumarolic gases, evidence for geothermal activity, 84M/0663
—, isotopes, $^{40}Ar/^{36}Ar$, use as tracer for mantle isotope geochem., 84M/0508
Argutite, *Pyrenees*, new mineral, data, 84M/3228
Arkose, *Belgium, Lahonry*, min., petr., shown to be quartzite, 84M/2208
Armalcolite, *South Africa, Jagersfontein*, unusual Ca-Cr (Nb Zr), with new titanates from kimberlite, 84M/2821
Arrojadite, *Germany, Hagendorf Süd*, tonnage mined, 84M/0876
Arsenates, *Switzerland, Alps*, secondary occurrences, 84M/1178
Arsenic, detn. in rocks, soils by hybrid AAS method, 84M/2433; detn. in soil digest by non-dispersive atomic-fluorescence spectrometry, 84M/2434; traces in soils, sediments, simultaneous detn. with Sb, Bi by ICP emission spectroscopy, 84M/2438; reflected light study, 84M/3568; *England, Devon, Meldon*, native, occurrence in aplite, 84M/4254; *Belgium*, content in Fe-sulphides, 84M/1897; *Japan, Fukuoka Pref., Ryuge-ji*, native, X-ray data, 84M/4583; *Canada, Ontario, Sudbury*, enrichment in lakes near smelters, 84M/2619
Arsenides, CoAs, FeAs, room- and high-*P* chem., 84M/3842; *Poland, Lubin* and *Polkowice mines*, of Pd, in Zechstein Cu deposits, 84M/3191; *Cyprus, Limassol Forest*, Ni-Fe, three probable new in serpentinite, 84M/2075
Arseniosiderite, *Germany*, Clara mine, new find, 84M/4559
Arsenite, oxidation, sorption by MnO_2, influence of Fe-, Al-oxide, $CaCO_3$ surface coatings, 84M/0097; oxidation by Mn-dioxides, kinetics, 84M/1533
Arsenolite, *England, Devon, Meldon*, occurrence in aplite, 84M/4254
Arsenopyrite, dislocation distrib., morphology, explanation of twinning, 84M/3569; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Pezinok deposit*, Sb-rich, microprobe anals., 84M/1899; *Žiar Mtns.*, occurrence, 84M/0253; *Romania, Blazna-Guset mining area*, in stratabound ore deposit,

Arsenopyrite (*contd.*)
84M/1463; *USA*, *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *Pacific Ocean*, *East Pacific Rise*, chem. behaviour in hydrothermal, metamorphic environments, 84M/0851
Asbestos, amphibole, in occupational air filters, particle size and shape, 84M/0310; amphibole, cation site population, Mössbauer study, 84M/2518; crocidolite, magnetic order in, 84M/2282; crocidolite, cation site population, 84M/2518; natural chrysotile asbestos, IR spectroscopic study, 84M/2521; *South Africa*, *Masuli mine*, chrysotile asbestos, rapid XRD detn. of chrysotile/lizardite ratios in, 84M/3169; *Yugoslavia*, *Inner Dinarides ophiolite complex*, asbestiform chrysotile in ultramafic rocks, 84M/2139
Asbolan, *USSR*, *Kara-Chagyr* and *Cuba*, structurally disordered with tetrahedrally coordinated Mn, 84M/3836; *Turkey*, *Çaldağ*, microprobe anals., 84M/0260; *China*, *Guangxi Prov.*, *Ling-shan mine*, Mn-, mode of occurrence of Cu in, application of electrodialysis method, 84M/2427; *Indian* and *Pacific Oceans*, in Fe-Mn concretions, 84M/1885
ASCENSION ISLAND, lavas and assoc. plutonic inclusions, petr., 84M/2060
Aschamalmite, *Austria*, *Untersulzbach Valley*, new mineral, data, relationship with heyrovskyite, 84M/1924
ASIA, explanatory notes to tectonic map, 84M/4330; *south east*, fractionation of Zr, Hf in cassiterite, 84M/0825; *Indo-Eurasian collisional margin*, volcanic rocks, Nd-Sr isotope, tr. element studies, 84M/1729
Asteroids *v.* planets
Atelestite, *Germany*, *Clara mine*, new find, 84M/4559
ATLANTIC OCEAN, distrib. of Cd, Pb, Cu, 84M/0646; carbonate tr. element and stable isotope geochem., comparison with DSDP hole 516F samples, 84M/2977; *north*, roles of advection, decantation in flux velocity, chem. compn. of pelagic sediments, 84M/1743; multicomponent electrolytic diffusion corrections for, 84M/1757; pyroxene-phyric MORB, fractionation at low-*P*, 84M/2732; Pleistocene deep water formation, implications from Panama Basin core isotope data, 84M/3023; *north east*, opening of, relation of bentonites in English Chalk to, 84M/3763; *north east 25°N to 35°N*, Al distrib., 84M/0645; *northwestern*, talc in suspended matter, possible origins, 84M/1539; *north west*, particle flux, reworking at deep-sea floor, estimates using $^{234}Th/^{238}U$ disequilibrium, 84M/4147; *south*, anthropogenic tritium in bottom water, 84M/2629; *seamount at 7°58′, 21°02′W*, deep-sea Mn encrustations, spatial variation of U-Th series radionuclides, tr. metals, 84M/4089; *Amazon continental shelf*, silica, biol. uptake and accumulation, 84M/3032; *Afar* and *Icelandic ridges*, evolution, comparisons, 84M/1189; *Blake-Bahama basin*, Lower Cretaceous carbonaceous claystones, geochem., min., 84M/1337; *Blake-Bahama basin*, *DSDP site 534*, post Callovian clay min. and inorganic geochem. stratigraphy, 84M/1338; *Blake Outer ridge* carbonate diagenesis of Pliocene/Pleistocene hemipelagic mud, min., geochem., 84M/2199; *southern Brazil Basin* and *Rio Grande Rise*, clay mineral stratigraphy, 84M/2485; sediments, geochem., 84M/2990; DSDP cores, summary lithology, shipboard X-ray min., 84M/3465; *Brazilian continental margin*, geol. evolution, 84M/3620; *Chesapeake Bay*, *Delaware Bay*, *New York Bight*, organic N in shelf sediments, source, isotopic evidence, 84M/4181; *Falkland plateau*, authigenic gypsum, pyrite, glauconite association in Miocene biogenic ooze, 84M/2201; *Irish continental shelf*, *Porcupine Bight*, development, relationship between early oceanic/continental structures, use of magnetic data, 84M/3612; *Mid Atlantic Ridge*, two noble gas components in basalt, 84M/4096; *29°N to 73°N*, petr., geochem. variations along, 84M/4426; *65°N to 10°N*, Pb-Sr isotopic variations along, comparison with East Pacific Rise, 84M/4119; *Nova Scotian Rise*, *HEBBLE area*, resuspension in high energy area, sediment trap study, 84M/3491; *Reykjanes Ridge*, mantle plume noble gas component in glassy basalts, 84M/2866; *Rio Grande Rise*, basaltic rocks, petr., geochem., 84M/2893; tr. element geochem., 84M/2894; cherts from sediments, min., 84M/3464; *southern Santos Basin*, petroleum geochem., 84M/0682; *Scilly Isles area*, residual gravity field, geophys. interpretations, 84M/4555; *South African continental margin*, Pleistocene phosphorites, 84M/2615; *St Paul's Rocks*, metamorphic, metasomatic development of alkali basalt mantle source, Sr, Nd, Pb isotopic and *RE* element geochem., 84M/4100; *Walvis Ridge*, basalts, geochem. of RE elements in, 84M/2892; rock petr., geochem., 84M/4432; Late Cretaceous volcaniclastic rocks, 84M/4433; *Walvis Ridge*, *DSDP leg 74*, basalts, major, tr. elements and Nd, Sr isotope geochem., 84M/4117
Atmosphere *v.* Earth, atmosphere
Atmospheric pollution, from industrial cement kilns, consequences, 84M/0317; *Poland*, *Niepołomice Forest*, effect on forest geochem., 84M/0318; *Ethiopia*, *Addis Ababa*, radioactive contaminants, dynamics of, prelim. study, 84M/0330
Atomic absorption spectroscopy, for anal. of Cd, improved background correction, 84M/0071; for accurate detn. of Cu in South African primary/secondary reference samples, 84M/0712; for detn. of Be in reference samples, 84M/0718; flameless, for detn. of 18 tr. elements extracted from organometallic halide extracts, 84M/2424; for detn. of tr. elements in coal, 84M/2428; with electrothermal atomisation, effect on behaviour of Eu traces in silicate matrix, 84M/2431; detn. of Cu, Pb, Cd, Ni, Co in EDTA soil extracts, 84M/2432; hybrid method for detn. of As in rocks, soils, 84M/2433; anal. of ceramics, review, 84M/2448; with ICP, geol. uses, comparison with XRF anal., 84M/2435
AUCKLAND ISLANDS, *Musgrave Penin.*, and *Carnley Harbour*, volcanoes and granite basement, age, 84M/1216
Auger electron spectroscopy, for surface study of HF- and HF/H_2SO_4-treated K-feldspar, 84M/2745
Aurichalcite, *England*, *Cornwall*, *Greyston quarry*, new occurrence, 84M/2294; *USA*, *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320
Australes (*Tubuai*) *Islands*, large mantle heterogeneity beneath, 84M/4120
AUSTRALIA, demethylated hopanes in crude oils, application in petroleum geochem., 84M/0699; fractionation of Zr, H in cassiterite, 84M/0825; bituminous coal structural investigation, variation in rank 84M/3057; growth of continent through geol. time, evidence from Nd-isotope anal of shales, 84M/3665; Mössbauer effect studies of structural Fe in kaolin 84M/3729; of surface Fe, 84M/3730; coal kerogen, humic acid content, evaluation of Rock-Eval pyrolysis, 84M/4179; *south eastern*, submarine 'crystal tuffs', origin Lower Devonian example, 84M/3432 phyllosilicates and assoc. minerals in Palaeozoic stratiform sulphide deposits 84M/4236;
—, NEW SOUTH WALES, stress configurations in conjugate quartz-vein arrays, 84M/4462; *Barrington*, *Yerranderie*, *Yalwal*, and *Pambula*, Au in goldfield surface waters, anal., possible direct hydrogeochem. prospecting, 84M/3043; *Blayney*, *Brown's Creek*, Cu, Au in skarn, 84M/3912 *Broken Hill*, zincian dolomite, chem. 84M/0873; roepperite is ferroan tephroite 84M/1822; stolzite, new occurrence 84M/2313; *Broken Hill block*, Willyama supergroup, stratigraphic subdivision metamorphic interpretation, 84M/0290 stratiform/stratabound W mineralization 84M/0291; *Cobar area*, silcretes, anals. hand specimen descriptions, 84M/3489 *Cobar Lucknow area*, basement/cover relations and Silurian I-type intrusive, age 84M/3661; *Currabubula formation*, outflow ignimbrite sheets from Late Carboniferous calderas, 84M/3431; *Glenrock Station*, subcalcic Fe-rich amphiboles in meta dolerites, 84M/1844; *Great Serpentine Belt*, diverse mafic-ultramafic complexes in Palaeozoic arc, 84M/2132; *Gumble*, malayaite, Sn-bearing garnet from skarn, data, 84M/1823; *New England*, ore formation in Sn-mineralized granite, fluid inclusion study, 84M/1502; *Southern Highlands province*, alkaline magmas and apatite-rich mantle xenoliths, *RE* element, isotopic study, evidence for CO_2- and *LREE*-rich mantle below, 84M/2908; *Sydney Basin*, Late Permian shoshonitic lavas, *RE* element geochem., 84M/4113; *Walcha area*, garnet websterites, ultramafic inclusions from nepheline mugearite, 84M/3384; *Woodsreef serpentinite*, neptunite, opt., anals., XRD, 84M/3181
—, NORTHERN TERRITORY, *Austatom U prospect area*, fixation of ^{238}U decay series radionuclides near mineralized zones, 84M/0323; *Amadeus* and *Ngalia basins*, assoc. of sulphate evaporites, stromatolitic carbonates, glacial sediments, Proterozoic examples, 84M/3490; *Chewings Range*, strain in quartzite mylonite, 84M/1971; *McArthur River dist.*, *Coxco deposit*, Proterozoic Mississippi Valley-type deposit, geol., 84M/0288; *Nabarlek U deposit*, petr., geochem. constraints on genesis, 84M/1500; *Rum Jungle*, magne-

AUSTRALIA, NORTHERN TERRITORY (*contd.*)
site, *T* control on morphology, fluid inclusion study, 84M/3220; *Strangways Range, Arunta block*, granulites, metamorphic and tectonic evolution, 84M/3552; *Strangways* and *Fraser Ranges*, ^{18}O depletion in Precambrian granulites, 84M/4155
—, QUEENSLAND, opal mining, summary, 84M/2763; geol., vol. to accompany geol. map, 84M/3319; *Ben Lomond*, U-Mo mineralization, geol., 84M/0289; *Brisbane* and *Caboolture areas*, industrial rock and mineral resources, 84M/2578; *Bundaberg, Rockhampton* and *Clermont areas*, Cainozoic volcanic rocks, K/Ar ages, 84M/2352; *Bunya Mtns.*, and *Carnarvon Range*, basalts and related lavas, petrogenetic relations, 84M/3383; *Cape Flattery*, humate cemented sands (humicretes), characteristics, significance, 84M/3486; *Einasleigh*, ^{13}C-rich marbles in metamorphic sequence, 84M/0621; Proterozoic mafic granulites, geochem., O-isotope affinities, 84M/3003; *Fraser Island*, cations, silica in lake and creek waters, 84M/3016; *Georgetown inlier*, age of D^4, 84M/3662; *Gilberton area*, mines, min. deposits, 84M/2579; *GSQ Lawn Hill 1–4*, stratigraphic drilling, report, 84M/3382; *Ipswich area*, industrial rock, min. resources, 84M/2616; *Julia Creek*, oil shales, microscopic petr., 84M/1097; *Mary Kathleen*, magmatism, skarn formation and U mineralization, geochron., 84M/0273; *Mount Cobalt*, Co-W mineralization, geol., suggested genesis, 84M/2600; *Mount Isa*, pyrite metamorphism, deformation and recrystallization, 84M/0845; orebody genesis, Pb-isotope studies, 84M/2854; *Mount Isa inlier*, superposed volcanism, timing, U/Pb data, 84M/2353; *Mount Turner*, Cu-Mo mineralization, geol. environment, 84M/2601; *Mount Vista Cu deposit*, porphyry Cu deposit, geol., 84M/2602; *Roman region*, pyroxenes from leucite-bearing and related assemblages, chem. significance, 84M/3140
—, SOUTH AUSTRALIA, pedogenic calcrete in vadose zone of Quaternary calcareous dunes, 84M/2222; opal industry 1979, survey, 84M/2762; groundwater hydrogeochem., application to min. exploration, 84M/3042; Late Tertiary 'grey billy', age and origin of silcrete, 84M/3488; minerals, catalogue, 84M/3605; botryoidal goethite, high-resolution TEM study, 84M/4257; *Arkaroola*, unusual pyrite-sulphur-jarosite assemblage, kinetics, 84M/1903; *Blanchetown*, gypsum deposits, geol. studies, 84M/2610; *Eyre Penin., Lake Macdonnell*, gypsum reserves, review, 84M/2611; *Flinders Range, Ediacara*, palaeoenvironmental study, 84M/1096; *Maslin Beach*, ferruginous concretions, lined with hematite, 84M/3487; *Miltalie*, jade deposit, 84M/2769; *Moomba area*, magnetic Fe(Mg, Mn)-titanate from sand, 84M/3194; *Mount Gunson area*, Cu mineralization, genesis, geochem. constraints, 84M/0544; *Mount Lofty Ranges, Gumeracha talc deposits*, review, reserves, 84M/2612; *Mount Mitchell tin workings*, cassiterite in quartz-greisen veins, sampling, 84M/2599; *Port Pirie area*, heavy-metal enrichment, bacterial sulphate reduction, Fe-sulphide formation in offshore carbonate sediments, 84M/0319; *Roxby Downs, Olympic Dam Cu-U-Au deposit*, proposed new type of sediment-hosted ore deposit, geol., 84M/1501
—, TASMANIA, Cambrian ophiolitic ultramafic complexes, geol. environment, petr., tectonic significance, 84M/2133; *Kara mine*, mpororoite, anthoinite, pseudomorphous after scheelite, 84M/4255; *Mt. Lindsay*, zoned Sn-W-F-Be skarns, geol., geochem., 84M/3509; *Mt. Lyell*, chalcopyrite in fault zones, deformation microfabric development, 84M/4504
—, VICTORIA, *Bullenmerri* and *Gnotuk maars*, ultramafic xenoliths, petr. of subcontinental crust-mantle transition, 84M/3385; *Glen Wills*, Au in goldfield surface waters, anal., possible direct hydrogeochem. prospecting, 84M/3043; *Jemba rhyolite*, geochem., petrography, 84M/0579; *Upper Murray Valley*, Late Silurian high-Si igneous rocks, geol., geochem., origin, 84M/4114
—, WESTERN AUSTRALIA, nature of Archaean Au-bearing fluids, evidence from Au deposits, 84M/0536; Precambrian kerogens, characterization by anal. pyrolysis, 84M/0681; filamentous fossil bacteria from Archaean, 84M/2338; Govt. Chem. Labs. Min. Divn., details of work done, 84M/3864, 84M/3865; Cu-Ni-sulphide deposits, structure, compn., comparison with Noril'sk type, 84M/3868; *Eastern Goldfields area*, Ni, Cu, Co, Zn accumulation in *Hybanthus floribundus*, 84M/2620; *Golden Grove Cu-Zn deposit*, effects of metasomatism, development of quartz 'eyes' in intrusive/extrusive rocks, 84M/1498; geol., 84M/1499; *Hamersley*, riebeckite formation in Dales Gorge member Fe-formation, conditions, 84M/0465; Fe-formation-rich group, origin, 84M/3551; *Kalgoorlie*, Au-telluride mineralized and silicified pyritic shear zone, geochem., isotopic studies, 84M/0546; *Kambalda*, greenstones, revised Sm/Nd systematics, 84M/3663; *Lawlers, Agnew Dome*, Archaean acid intrusive rocks, geochem., crustal origin, 84M/4115; *Mount Keith*, pyrrhotine-pentlandite-tochilinite-magnetite-magnesite textures in serpentinites, interpretation, 84M/0848; *Mt. Narryer*, 4100–4200 m.y. old zircons, ion-microprobe ident., 84M/2351; *North Pole*, Carbonaceous filaments, possible fossil bacteria in Archaean stromatolites, 84M/4463; *Pilbara dist.*, folding, clastic dyke injection in accretionary lapilli beds, use in recognizing soft-sedimentary deformation, 84M/0904; Archaean shales, geochem., 84M/2975; *Pilbara block*, evidence for stabilization, 84M/4331; *Pilbara block, Shaw batholith*, 3500 m.y. plutonic, volcanic calc-alkaline province in Archaean craton, 84M/2035; *Walgidee Hills*, jeppeite, new mineral, data, 84M/3239; *West Kimberley area*, magnesian-rich leucite-lamproite, high-*P* exptl. study, petrographic implications, 84M/2753; *West Kimberley region, Fitzroy area*, Nd, Sr-isotopes in kimberlites and lamproites, enriched mantle origin, 84M/2907; *Yeelirrie*, water samples from uraniferous calcrete, pH, Eh, T, conductivity, alkalinity, 84M/1787; *Yilgarn block*, growth of Archaean crust, 84M/0030; Sm/Nd model ages across margins, 84M/0033; greenstone, zircon age data, 84M/0034; hydrogeochem., weathering, ferrolysis and heavy metals in brines, 84M/0657; aluminosilicate cementation of saprolites, grits, silcretes, 84M/1095; Cu-Ni-sulphide deposits, comparison with Russian, 84M/2572; Au, Ag mobility in lateritic weathering profiles, 84M/4142; *eastern*, Archaean gneisses, Sm/Nd, Rb/Sr dating, 84M/0032; *Yilgarn block, Albany-Fraser province*, Sm/Nd model ages across margins, 84M/3664; *Diemals area*, Archaean crustal evolution, Pb-isotope ages, reset Rb-Sr ages, implications, 84M/0031; *Yilgarn block, Eucalyptus area*, relative timing of igneous intrusion, 84M/3386
AUSTRIA, *Attersee*, heavy metal pollution in lake sediments, chronology, 84M/2618; *Bohemian massif*, garnet-clinopyroxene rocks in granulite facies environment, petr., 84M/3519; *Burgenland, Schlaining*, S-isotope values of stibnites, 84M/2826; *Carnthia, Bleiberg*, S-isotope distrib. in Pb-Zn deposit, 84M/1675; *Bleiberg-Kreuth*, rare Pb-Zn mineralization in Wetterstein beds, petr., 84M/3877; *east Gailtalkristallin*, two new sulphidic ore mineralizations, 84M/2590; *East Tyrol, Lienz area*, pyrrhotite, scheelite enrichment in gneisses, geol., 84M/2567; *Fortsau*, U-silicates in U deposits, chem., min., 84M/0756; *Goldberg Mtns., Waschgang Au-Cu deposit*, ore mineralogy, 84M/3902; *Hohe Tauern, Habachtal emerald deposit*, geochem. of blackwall sequences, presentation of geochem. data, 84M/4151; *Habach formation*, metarodingite, geochem., petr., 84M/4476; *Nassfelder Tal*, minerals, descriptions, 84M/3600; *Kamp Valley*, biotite, apatite from 'biotite schist', anals., 84M/3158; *Kottaum-Arzberg mine*, magnetite-bearing pyroxene rock, opt., X-ray, chem. studies, 84M/2593; *Kreuzeckgruppe*, S-isotope values of stibnite, pyrrhotite, pyrite, sphalerite, 84M/2827; between *Melk* and *Krems*, chrysoberyl trillings, 84M/4565; *Nordtirol, Navistal*, scheelite mineralization in Fe-rich dolomitic unit, 84M/2591; *Obersulzbachtal*, harmotome crystals, 84M/4564; *Ötztal-Stubai complex*, Alpine metamorphism of dolerite dykes, 84M/4489; *Radmer-Buchegg* and *Erzberg mines*, ankerite, evidence for superstructuring in, 84M/3846; *Rauris Valley*, minerals in Au tailings, descriptions, 84M/3601; bertrandite occurrence, description, twinning, 84M/3602; *Rauris Valley, Sonnblick*, scheelite, description, 84M/2302; *Salzburg, Bärenbad*, eclarite, new sulphosalt, data, 84M/3233; *Felber-* and *Hollerbachtal*, Pb-Bi-(Cu) sulphosalts, occurrence, 84M/3878; *Hollerbachtal, Bärenbad*, 'cosalite' is eclarite, 84M/3878; *Mühlbachtal/Oberpinzgau*, scheelite mineralization in Fe-rich dolomitic rocks, 84M/2592; *Northern Calcareous Alps*, weakly metamorphosed shales, carbonate rocks, K-Ar, Rb/Sr data from fine fractions, interpretation, 84M/3647; *Tennengebirge*, anchizonal metamorphism, 84M/3529; *Salzburg, Untersulzbach Valley*, aschamalmite, new mineral, data, relationship with heyrovs-

AUSTRIA (*contd.*)
kyite, 84M/1924; *Sölden*, staurolite in garnet amphibolite, textural, compn. relations, 84M/4215; *Styria* (*Steiermark*), *eastern central Alps*, pre-Alpine ultramafic rocks, possible ophiolite origin, 84M/2128; *Gaberl*, garnet-kyanite-mica schist, study, 84M/3530; *Johnsbach*, minerals, descriptions, 84M/2303; *Koralpe*, perthitic alkali feldspar of Stainzer Plattengneiss and spodumene-pegmatites, 84M/3531; *Laussa*, small fluorite occurrences, min., chem., 84M/3226; *Oberdorf a.d. Laming*, minerals, list, 84M/4563; *Stubaier Alps*, Permo-Mesozoic metasediments, petr., metamorphism, 84M/3533; *Tauern window*, ophiolite related mineralization, 84M/2141; young Alpine dykes, K/Ar, Sr-isotope study, 84M/2341; fluid inclusions in Alpine min. veins, 84M/4074; high-*P* metamorphism, *P-T* paths from schists, 84M/4490; *Tyrol*, *Tristennöckel*, spodumene-rich pegmatite, anals., 84M/3143; *Zillertal Alps*, *Berliner Hütte*, migmatites, petr., age detn., 84M/3648; *Vienna Basin*, *Aderklaa borehole*, Tertiary marlstones, diagenesis, 84M/3760
Autoliths, *Scotland*, *Loch Doon intrusion*, evidence for assimilation, partial melting of continental crust, 84M/2258
Autunite, *England*, *Devon*, *Meldon*, occurrence in aplite, 84M/4254; *France*, *Les Oudots*, occurrence, 84M/2296; *Belgium*, *Daverdisse*, in quartzites, quartz veins, 84M/1483; *Germany*, *north Bavaria*, with U minerals in tectonized wallrock, 84M/1460; *India*, *Singhbhum shear zone*, in apatite-magnetite rocks, 84M/1469
Aventurine *v.* quartz
Axinite, *Poland*, *Strzegom massif*, pegmatitic, fluid inclusion study, 84M/4369
—, ferroaxinite, *USA*, *New Jersey*, *Oxford Stone quarry*, crystals, morph., anal., 84M/1836
Azurite, *Austria*, *Styria*, *Johnsbach*, occurrence, description, 84M/2303; *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *USA*, *Arizona*, *New Water Mtns.*, possible chrysocolla pseudomorphs after, 84M/2327

Babingtonite, crystal chem., application of Mössbauer and opt. emission spectroscopy to Fe detection, 84M/0149
Bacteria, aquatic, morphology and structure of biogenic magnetite particles in, 84M/3199; cyano-, weathering patterns on limestone, dolomite, evidence for contribution to terra rossa soil, 84M/3774; *Canadian Shield*, rise of sulphate reducing, 84M/3005; *Pacific Ocean*, *East Pacific Rise*, *21°N*, growth at 'black smokers' at 250°C plus, 84M/2801
Baddeleyite, class of pigments for vitreous enamel industry, 84M/2608; *South Africa*, *Benfontein*, primary in kimberlite, 84M/3203
BAHAMAS, artificially compacted lime mud cores, mechanical, chem. compaction, 84M/1105
BALTIC AREA, amber accumulation in 'blue earth', 84M/1654; *Baltic Shield*, *Ladoga region*, metallogenic belt of long-evolving deep faults, 84M/3879
BALTIC SEA, *south*, types of sedimentary environments based on sorption props., 84M/4452
Bannermanite, *El Salvador*, *Izalco volcano*, new mineral in fumaroles, 84M/0878
Bararite, *Germany*, *Clara mine*, new find, 84M/4559
Baratovite, similarity of structure to fedorite, 84M/1386
BARBADOS, U, Sr, Mg in Holocene/Pleistocene corals, 84M/0614
Barentsite, *USSR*, *Kola Peninsula*, *Mt. Restinyon*, new mineral, props., 84M/1925
BARENTS SEA, *south west*, long-lived fault zones, influence on tectonic development, 84M/4322: *Barents Sea shelf*, sedimentation, quartz grain roundness evidence, 84M/4453
Barium, distrib. in mins. of ultramafic alkalic rocks, 84M/0551; lacustrine chem., active biological participation, 84M/2625; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; indicator of geochem. zoning in K-feldspar megacrysts from granitoid rocks, 84M/4239; *Norway*, *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Gulf of Mexico*, distrib. in surficial sediments, use in assessing areal extent of drilling fluids, 84M/1536
—, compounds, $Ba_2Ti_9O_{20}$, cryst. struct., 84M/0184; synthetic $Ba(NO_3)_2$, struct., 84M/0205; BaFCl, influence of high hydrostatic *P* on crystal struct., 84M/0447; $BaZnGeO_4$, shock-induced phase change, 84M/1579; $Ba(HCOO)_2$, crystal structure, 84M/2550; $BaTiO_3$, flux growth of bulky crystals, 84M/2689; in system $Ba_2TiGe_2O_8$–$Ba_2TiSi_2O_8$, synthesis, structures, 84M/4037; BaO, thermal expansion data, 84M/4536
Barrerite *v.* zeolites
Baryte, with Sr, dissolution, thermodynamic and exptl. study, 84M/0363; crystal growth in gels, lab. study, 84M/0385; growth of crystals in suspension, influence of phosphonates, 84M/0387; PO_3^{3-}, SO_3^- radicals, hyperfine structure and dynamics, 84M/1395; direct extraction of SO_2 for isotopic anal., 84M/2445; *Czechoslovakia*, *Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253; *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822 *Japan* and *Taiwan*, Pb-bearing (hokutolite), relationship between lattice constants, Sr, Ca contents, 84M/4267; *South Africa*, *Aggeneys* and *Gamsberg*, S-isotope content, 84M/1677; *Canada*, *Western Cordillera*, isotopic compn., possible derivation of oceanic sulphate $\delta^{34}S$, $\delta^{18}O$ age curves, 84M/2832; *USA*, *Arizona*, *Magma mine*, crystals, 84M/2321; *Illinois*, *Denton mine*, occurrence, description, 84M/2316; *South Dakota*, *Elk Creek*, golden crystals, new find, 84M/4570; *Sea of Japan*, *Yamato ridge*, concretions, anals., 84M/3482
—, deposits, *Scotland*, *Aberfeldy area*, deposits, 84M/0921; Dalradian, S-isotope study, 84M/4077; *Ochil Hills*, mineralization, origin, S-isotope study, 84M/2831; *Ireland*, vein mineralization in ORS, significance to further exploration, 84M/1441; *USSR*, *Nikitovka* and *Drushkovka-Konstantinovka orefields* and *N. Donbass region*, hydrothermal in Hg regions, 84M/3217; *Transcarpathia*, *Beregovo deposit*, min., morph., anals., 84M/0862; *Belgium*, *Chaudfontaine*, S-isotopes, implications for deposit origin, 84M/1671; *Turkey*, *Kicik*, *Endişegüney* and *Seyfe*, stratabound mineralization, relation with gangue minerals, genesis, 84M/0259; *Canada*, *North West Territories*, *Vulcan prospect*, massive, geol., 84M/3927
Basalt, reaction with sea-water, relation to origin of greenstones and related ore deposits, 84M/0230; isomolar, isostructural pseudo-liquidus phase diagrams of oceanic, 84M/0333; alkali, transition to kimberlite, isotope and tr. element evidence from melilitites, 84M/0556; mid ocean ridge, $^{176}Hf/^{177}Hf$ ratios, comparisons, 84M/0583; NBS standard SRM 688, detn. of elements by ICP-atomic emission spectrometry, 84M/0726; thermal props. at high-*T*, 84M/1167; continental, and mantle xenoliths, (book), 84M/1254; continental flood, major-, tr. element anals. petrogenesis, 84M/1707; continental flood, implications for sub-continental mantle chem., 84M/1709; evolution of basalt series, effect of fluid compn. on, 84M/1712, submarine, modal phenocryst assemblages, systematics of, petrological implications, 84M/2063; partial melting during subduction, influence of submarine weathering, 84M/2065; ophiolitic and ocean floor, petrographic dissimilarities, 84M/2084; geochem. reference sample JB-2, detn. of major/minor elements by ICP spectroscopy, 84M/3065; continental associations of alkali-olivine, tholeiitic, transitional, 84M/3332; ocean island and mantle reservoirs, 84M/3442; hydrothermally altered, *RE*, element abundances, distrib. patterns, 84M/3972; hydrothermal alteration by 4 molal NaCl, 84M/3977; high-*P* phase equilibria of high magnesia, genesis of primary oceanic basalts, 84M/3981; petrogenesis, application of study on liquidus phase relationships on join anorthosite–forsterite-quartz, 84M/4006; subglacial olivine tholeiite hyaloclastite, progressive subaerial palagonitization, chem., 84M/4099; altered deep-sea, O isotope–H_2O relations, low-*T* min. controls, 84M/4149; *Greenland*, *Hold with Hope* and *Wollaston Foreland*, Tertiary flood basalts, petr., 84M/3338; *southern Norway*, assoc. with 'sparagmites', geochem., 84M/0553; *Iceland*, *Reykjanes*, interaction with sea-water, probable cause of $CaCl_2$ brines, 84M/0516; *USSR*, *Komandor Islands*, geol., new data, 84M/2024; *Lesser Caucasus*, *Osinovye Somkhetsk Ridge*, crystal differentiation in flows, 84M/2022; *England*, *Derbyshire*, Carboniferous, geochem., petrogenesis, 84M/2870; *Ireland*, *Giant's Causeway*, column formation, new model, 84M/3345; *France*, *Massif Central*, alkali, Nd/Sr isotope and *RE* element geochem., 84M/4105; *Germany*, *northern Hessian depression*, upper mantle rocks from, 84M/3311; *Gran Canaria* and *St Helena*, alkali, tr. element partition coefficients

Basalt (*contd.*)
between melt/mineral, 84M/2891; *Czechoslovakia, central* and *southern Slovakia*, alkaline, palaeomagnetism, radiometric ages, 84M/1166; *Hungary, Kovácsi-hegy* and *Uzsabánya*, geochem., petr., 84M/2884; *India, Africa, Canada*, continental tholeiites, tr. element geochem., 84M/2897; *east China*, lherzolite nodules from Cainozoic, flow structures, flow stress estimates, 84M/3316; *Hainan Island*, Quaternary, lateritization of, 84M/0123; *Mongolia*, cryst. struct. of augite from alkaline, 84M/0782; Late Palaeozoic systems with comendite, 84M/0995; *Japan, Kii Peninsula*, transition to eclogite in subducting oceanic crust, seismological constraint on depth, 84M/4556; *Japan, Honshu, Misasa dist.*, alkali, crystallization trend of Cr-spinel in, 84M/0829; *Fukushima Pref., Ryozen*, tr. element contents, prelim. rept., 84M/0576; *Australia, Queensland, Bunya Mtns.*, and *Carnarvon Range*, petrogenetic relations with related lavas, 84M/3383; *New Hebrides, Erromango Island*, early stage fractionation in island arc type, evidence, 84M/0582; *Ethiopia*, flood basalt province, stratigraphy, petr., review, 84M/4378; *Canada, British Columbia, Chilcotin*, regional strat., age., 84M/0044; *Ontario, Confederation Lake area*, in repetitive cyclical volcanic sequences, geochem., 84M/1735; *Quebec, Lac Guyer*, petrogenesis, nature of komatiite-komatiitic basalt gap, 84M/2044; *USA, Columbia River basalt area*, Imnaha basalt, geol., petr., anals., 84M/4399; *Columbia Plateau* and *north western great basin*, magma compn. of Cainozoic, tectonic influence, 84M/3401; *Alaska, Togiak*, new Quaternary formation, 84M/1007; *California, Coso volcanic field*, contaminated, compositional variation in, 84M/4400; *Hawaii*, He isotopes, mantle volatiles in, 84M/3439; *Haleakala volcano*, tholeiite and alkalic, origin, 84M/2912; *Kilauea*, H_2O, CO_2, S concentrations, sources, losses, 84M/0580; differentiated tholeiitic, distrib. on lower east rift zone, 84M/1039; *Kohala volcano*, origin, transition from tholeiitic to alkalic volcanism, 84M/2911; *Oahu*, isotope evidence for multiple sources, 84M/2914; *Washington, Umtanum*, selenate-Se sorption, 84M/3971; *Lesser Antilles, Grenada*, high-Ca, -Sr, C-series, evolution, effects of intra-crustal contamination, 84M/2950; origin, theory and reassessment, 84M/2951; *Ascension Island*, alkali, petr., 84M/2060; *Mariana Islands*, Ce-anomalous, origin, implications from pelagic sediment subduction, 84M/4123; *Ponape Island*, alkali, petr., chem., age, isotopic compn., 84M/4436; *Antarctica, Marie Byrd Land*, continental alkali, source from Cainozoic mafic lavas, Nd-Sr isotopic evidence, 84M/1732; *Atlantic Ocean, north*, pyroxene-physic MORB, fractionation at low-*P*, 84M/2732; *Mid Atlantic Ridge*, two noble gas components in, 84M/4096; *Mid Atlantic Ridge, 29°N to 73°N*, petr., geochem. variations along, 84M/4426; *Reykjanes Ridge*, glassy, mantle plume noble gas component in, 84M/2866; *St Paul's Rocks*, alkali mantle source, metamorphic, metasomatic development, isotopic and *RE* element geochem., 84M/4100; *Walvis Ridge*, geochem. of *RE* elements in, 84M/2892; petr., geochem., 84M/4432; *Walvis Ridge, DSDP leg 74*, major, tr. elements and Nd, Sr isotope geochem., 84M/4117; *Greenland Sea, Mohns-Knipovich Ridge*, petr., 84M/4103; *Gulf of California*, lithology, petrography, min., 84M/2153; *Gulf of California, DSDP leg 65*, geochem., 84M/2157; *DSDP sites 482–485*, chem. variation, microprobe study, 84M/2154; *DSDP sites 482, 483, 485*, geochem., 84M/2155; geochem., *RE* element abundancies, 84M/2156; *Indian Ocean*, Pb-isotope variations, mixing phenomena, 84M/2898; *Pacific Ocean, Costa Rica rift*, alteration in, prelim. results, 84M/2178; layer 2 basalts, alteration processes in, 84M/2179; secondary minerals in, 84M/2182; secondary K-feldspar in, problem of K-feldspathization in oceanic, 84M/2184; sulphide petrology, 84M/2186; S content, S-isotopes, 84M/2188; O-, H-isotope compns., 84M/2189; Sr-, Pb-isotope compns., 84M/2190; possible example of multistage melting, geochem., exptl. data, 84M/2191; variously depleted in same hole, 84M/2193; major, tr. element chem., alteration products, 84M/2194; geochem., 84M/2195; Cr-spinels in, 84M/2196; standards, interlaboratory comparison, 84M/2198; *East Pacific Rise*, example of oceanic crust depleted in hygromagmaphile elements, 84M/2158; *East Pacific Rise 21°N*, oceanic tholeiites, ^{230}Th-^{238}U disequilibrium in, 84M/1734; *East Pacific Rise* and *Mid Atlantic Ridge*, Pb-Sr isotopic variations along, comparisons, 84M/4119; *Explorer Ridge area*, geochem., 84M/4118; *Galapagos rift*, fresh and altered, geochem., min., 84M/2171; S, S-isotope content, 84M/2173; *Galapagos spreading centre*, petrography, chem., 84M/2170; *Galapagos spreading centre, 85°–87°W*, erupted, geochem., 84M/2172; *Galapagos spreading centre, 85°–86°W*, volatiles in 84M/2916; *Loihi Seamount*, diverse types, geochem., petrogenetic implications, 84M/3434; petr., 84M/3435; $^{87}Sr/^{86}Sr$ ratios, 84M/3437; He isotopes in, 84M/3439; coexisting glass, olivine in, noble gas systematics, 84M/3440; *Panama basin*, tr. element geochem., 84M/2192; *DSDP, legs 64* and *65*, alteration of, 84M/2160; *DSDP leg 65*, O isotope compn., 84M/2161; *DSDP leg 76, hole 534A*, petr., min., geochem., 84M/2200; *DSDP sites 483, 483B*, min. chem., 84M/2159; *DSDP, site 516*, $^{40}Ar/^{39}Ar$ age spectra, 84M/3626
—, dykes *v.* dykes, basalt
—, glass *v.* glasses
—, lavas *v.* lava, basaltic
—, minerals, *west India*, survey, 84M/4572; *Pacific Ocean, Costa Rica rift*, secondary, 84M/2182; sulphide petr., 84M/2186; Cr-spinels in, 84M/2196
—, sills *v.* sills
Basaltic glass *v.* glasses, basaltic
—, lavas *v.* lavas, basaltic
—, magma *v.* magma, basaltic
—, rocks, *Germany, Hessian depression*, Tertiary, chem., 84M/4368; *Italy, east Liguria*, development of rodingite in, 84M/3502; *Spain, Campos de Calatrava*, $^{87}Sr/^{86}Sr$ ratios, 84M/2877; *Murcia, Tallance*, basaltic hornblendes in, chem. study, 84M/3147; relationship between *d*-spacings and chem. compn., 84M/3148; *Canada, Northwest Territories, Coppermine River area*, geochem., petrogenesis, 84M/0586; *Atlantic Ocean, Rio Grande Rise*, petr., geochem., 84M/2893; tr. element geochem., 84M/2894
—, systems, and corresponding states equation for crystal growth rates, 84M/3333
—, textures, *USA, New Mexico, Taos volcanic field*, effect of heterogenous crystallization on, dynamic crystallization study, 84M/0349
Basaltoids, *Turkey, Pontic Ranges*, palaeomagnetic studies, 84M/1198
Basanite, *Kenya, Nyambeni Range*, in suite with peralkaline phonolite, petr., origin, 84M/2056; suite to peralkaline phonolite, quantitative crystal fractionation model, 84M/3425; *Argentina, Garrapta quarry*, suitability for use in concrete, 84M/1018
Basic dykes *v.* dykes
—, lava *v.* lava, basic
—, rocks, from continental crust, *RE* elements in, 84M/2809; intermediate-basic, leaching expts., 84M/3978; *England, Cornwall, Lizard complex*, geochem., comparisons with Hercynian basaltic lavas, 84M/2872; *USSR, Kurilo-Kamchatka arc*, in abyssal fracture zones, structural transformations, 84M/3366; *India, Ladakh, Dras area*, petr., chem. characteristics, 84M/2114; *South Africa, Namaqualand*, Cu-bearing, petr., 84M/1994
Basins, episodic dewatering, implications from Mississippi Valley type Pb-Zn deposits, 84M/1432; Recent, processes of ferromanganese ore formation in, exptl. study, 84M/2672; *southern Norway*, Late Proterozoic evolution on Baltoscandian craton, 84M/1984; *Black Sea*, age, new data, 84M/2213; *Israel, Hula*, Pleistocene subsidence, sedimentation, rate, comparison with others, 84M/2214; *north western Himalaya*, intermontane, development chronology, evolution of NW syntaxis, 84M/3315
—, sedimentary, gas migration, isotope tracing techniques, 84M/0706; geochem. specialization, 84M/1763; formed by extension, isomerization, aromatization of hydrocarbons in, 84M/3047; development, effects of finite rifting times on, 84M/3614; *southern Norway*, subsidence, tectonics in Late Precambrian/Palaeozoic, 84M/2204; *Japan*, Neogene, petroleum geochem., primary migration, 84M/0702; *USA, California, San Joaquin basin*, thermal evolution, use of detrital microcline $^{40}Ar/^{39}Ar$ spectrum anal. in detn., 84M/1226
Bassanite, *Egypt, Lake Qarun*, from brine, geochem., 84M/1744
Bassettite, *Germany, Hagendorf*, secondary, description, 84M/0877
Bastnäsite, *Japan, Kyoto Pref., Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *USA, New York, Trout Brook Valley*, crystals, occurrence, data, 84M/2319

Batholiths, *England*, *Cornubian batholith*, Li-mica granites, textural evolution, 84M/3343; *India*, *Himachal Pradesh*, *Dhanladhar*, xenoliths in, petrogenetic significance, 84M/3506; *Canada*, *British Columbia*, *Coryell*, U, Th, in alkaline intrusions, 84M/2925; *Guichon Creek*, evolution, behaviour of U, Th during, 84M/2927; *Kuskanax batholith*, U/Pb zircon age, 84M/2360; *Surprise Lake*, U mineralization, lithogeochem., 84M/2938; *Newfoundland*, *Ackley City*, evidence for crystal *vs.* liquid-state fractionation, 84M/2919; *Nova Scotia*, *South Mtn.*, geochem., distrib. of U, Th in granitoid rocks, 84M/2923; *Ontario*, *Elzevir*, petrogenesis, 84M/1009; *USA*, *California*, *Klamath Mtns.*, *Wooley Creek*, petr., upward zonation, 84M/2048; *Idaho*, *Idaho batholith*, geol. along northwest border zone, 84M/4518; *Montana*, *Philipsburg*, min., petr., internal variation, evolution, 84M/2046; *Peru*, *coastal*, granophyric intrusives, crystallization history, 84M/2049

Batisite, potassic from charoite-bearing rocks, chem. anals, X-ray, comparison with noonkanbahite, 84M/0799

Bauxite, available alumina in, calculation during exploration, 84M/0229; *Mediterranean area*, karst-type and parent rocks, tr. element content, 84M/1760; *Yugoslavia*, *Montenegro*, red, contribution of igneous rocks to source material, 84M/4141; *Vrgorac*, occurrence, 84M/3920; *India*, *Tamil Nadu*, *Salem*, isomorphous substitution of Al in contained goethite, 84M/1880; *China*, *central Guizhou*, Carboniferous, indicators of sedimentary facies, environment, anal., 84M/4460; *South Africa*, *Karkloof Plateau*, preparation of beneficiated, quality evaluation, 84M/0262

—, deposits, *south France*, important minerals in, comparison with synthetic Al, Fe-oxide, hydroxide, oxyhydroxide, 84M/3989; *Greece*, *Mt. Kalidroman*, varying redox reactions in, 84M/4450

Bavenite, *Italy*, *Baveno*, type locality, description, 84M/2310; *USA*, *New Hampshire*, *Government Pit*, occurrence, brief description, 84M/2315

Bayerite, thermochem., 84M/1583

Bazzite, *Italy*, *Baveno*, type locality, description, 84M/2310

'Beegerite' affiliations with heyrovskyite and aschamalmite, 84M/1924

Beidellite *v.* smectite

BELGIUM, Pb-isotopes in Pb-Zn-Ba mineralization, general genetic model, 84M/1454; U in Palaeozoic rocks, reconnaissance survey, 84M/1805; Fe-sulphides from Pb/Zn vein deposits, Tl, Ni, Co, tr. elements in, 84M/1897; Tertiary building stones, microscopic, heavy mineral study, 84M/1992; sediments, heavy mineral content, 84M/2207; *coastal region*, beach sand, min., granulometric characteristics, 84M/2206; *Ardennes*, sedimentary development, 84M/3264; *central Ardennes*, goethite, lepidocrocite in brown soils, implications, 84M/1325; *Dinant synclinorium*, vein mineralizations, 'epigenetic-foreign' character origin, 84M/1684; *Heure*, geochem. dispersion of Pb, Zn around gossan in carbonate environment, 84M/1685; *Lahonry*, 'arkose', min., petr., shown to be quartzite, 84M/2208; *Liège*, *Chaudfontaine*, baryte S-isotopes, galena Pb-isotopes, implications for deposit origin, 84M/1671; *Limburg prov.*, *Loksbergen*, minute clinoptilolite crystals from siliceous sponge dissolution, props., 84M/1865; *Loenhout*, sulphide mineralization in borehole, 84M/1455; *Luxembourg Prov.*, *Daverdisse*, mineralogy of quartzites, quartz veins, 84M/1483; detrital chromite in Devonian sediments, anals., 84M/1878; *Poppelsberg*, fluid inclusions in calcite from Pb/Zn mineralized area, 84M/1809; *River Meuse*, Cd, Cu, Pb, Ni, Zn adsorption on solid hydrous oxides, application of model, 84M/2632; *Vesder basin*, stratigraphy, lithogeochem. of Walhorn section, implications, 84M/1751

Benitoite-like compounds $KMgP_3O_9$, $KZnP_3O_9$, $KCaP_3O_9$, crystal synthesis, electro-optical, electrostrictive props., 84M/1602

Benjaminite, *Austria*, *Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902

Bentonite, characteristics and fabric softening effect, 84M/2471; *south west Sweden* and *USA*, *Montana*, Rb/Sr, U/Pb dating, 84M/1221; *central eastern England*, in Chalk, relation to opening of NE Atlantic, 84M/3763; *Italy*, *Vicenza*, *Campotamaso*, transformation to smectite, 84M/2473; *Spain*, *Almeria*, *Cabo de Gata*, genesis, 84M/0098; *Serrata de Nijar*, min., geochem., 84M/2474; *Czechoslovakia*, *Jelšový potok 1 deposit*, stibnite in, proof of origin, 84M/0121; *USA*, *Cincinnati Arch*, Ordovician, chem. characteristics, origin, discussion, 84M/1328; reply 84M/1329; *Wyoming*, Ca-Mg exchange in presence of adsorbed Na, 84M/3708

Berkelium compounds, BkO_2, thermal expansion data, 84M/4537

Berlinite, crystal structure, refinement from Laue photographs with synchrotron radiation, 84M/1352

Berthierine, in ironstones, origin from kaolinite, 84M/1298

Beryl, high-*P* hydrothermal synthesis, 84M/0451; high-resolution TEM study, 84M/0775; treated blue, gemmological props., ident., discovery, 84M/1647; blue and green natural, opt. absorption, electron spin resonance, comment on previous paper, 84M/2281; high-*P* crystal, compressibility, 84M/4523; *Finland*, *Lapland*, green, occurrences, 84M/4055; *Germany*, *Schwarzwald*, pale-green crystals, 84M/3598; *Poland*, *Jakuszyce area*, in pegmatite, 84M/3357; *USA*, *Virginia*, *Herbb no. 2 pegmatite*, crystals to 300 lb, 84M/1636

—, aquamarine, *Pakistan*, *Haramosh*, large crystals, new find, 84M/4570

—, bixbite, gemmological props., ident., discovery, 84M/1647

—, emerald, tubules in synthetic and natural, description of imitation, 84M/0498; trapiche, gemmological props., ident., discovery, 84M/1647; natural and synthetic, spectrographic anal., 84M/4044; *Zambia*, *Kitwe Dist.*, genesis, 84M/3134; *Colombia*, *Bogota*, oil treatment of, 84M/4046; *Muzo* and *Chivor*, deposits, descriptions, mining techniques, min., 84M/4047

—, —, emerald deposits, *Austria*, *Habachtal*, geochem. of blackwall sequences, geochem. data presentation, 84M/4151

Beryllium, in 45 geochem. reference samples, detn. by ICP spectrometry, 84M/0714; detn. in 80 geol. reference samples by AAS, 84M/0718; in geol. samples, anal. by nuclear method, 84M/1249; quantitative chem. microdetn., 84M/2421; *China*, *Fujian Prov.*, in rare-metal pegmatite, geol., geochem., 84M/1476

—, isotopes, ^{10}Be, concentration of cosmogenic in Isna meteorites, 84M/1816; ^{9}Be, geochem. cycle, reconnaissance, 84M/2800; *USA*, *California*, ^{10}Be concentration in soil profiles, 84M/1759

—, minerals, euhedral crystals, possible mechanism of formation in metasomatic processes, 84M/1550

Beryllonite, thermal expansion, 84M/4540; *England*, *Devon*, *Meldon*, occurrence in aplite, 84M/4254

Bertrandite, high-*P* crystal structure, compressibility, 84M/4523; *England*, *Cornwall*, *Hingston Down quarry*, occurrence, description, 84M/3595; *Austria*, *Rauris Valley*, occurrence, description, twinning, 84M/3602; *Japan*, *Shiga Pref.*, *Takashima dist.*, pegmatitic, morphology, X-ray data, 84M/4602; *USA*, *New Hampshire*, *Government Pit*, occurrence, brief description, 84M/2315

Berzelianite, *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485

Betafite, *Madagascar* and *Canada*, *Silver Crater mine*, XRF anal., 84M/1888

Beudantite, *Austria*, *Rauris Valley*, in Au tailings, 84M/3601; *Japan*, *Kyoto Pref.*, *Mt. Gyoja*, occurrence, morphology, X-ray data, 84M/4596

Bibliographies, Ca-silicates, crystal growth from melts, fluxes, hydrothermal solns., history, 84M/0464; geochem. reference samples, 1982 list, 84M/0710; World phosphate rock resources (book), 84M/3698; mineral deposits in *N. Europe*, *European* and *Asian USSR*, 84M/3692

Bieberite, *Austria*, *Rauris Valley*, in Au tailings, 84M/3601; *USA*, *Arizona*, *New Cornelia mine*, description, 84M/4608

Biopyriboles, high-resolution TEM study of 'some new', 84M/0775; new phase, formation from Mg-vermiculite, 84M/3718

Biotite *v.* mica

Birdseyes, in lime mudstones, re-evaluation, 84M/1067

Birnessite, oxidation of arsenite by, kinetics, 84M/1533; Gibbs energy, 84M/1587; synthetic, mechanism of Co(II) oxidation on, 84M/2688; possible cause of 7Å X-ray reflection in Mn-nodules, 84M/3207; significance in natural abiotic formation of organic N complexes, 84M/4171; *Philippine Sea*, constituent of Mn nodules, 84M/4090

Bismuth, traces in soils, sediments, simultaneous detn. with As, Sb by ICP emission spectroscopy, 84M/2438; reflected light study, 84M/3568; *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485; *India*, *Kolar*, new locality, anal., 84M/3883

—, compounds, $Bi_2O_2CO_3$, high-*P* study, X-ray spectrum, electrical behaviour *in situ*, 84M/0437; first oxide-sulphide, Bi_2O_2S,

Bismuth, compounds (*contd.*)
synthesis, structure, 84M/3839; *Belgium, Daverdisse*, unident. in quartzites, quartz veins, 84M/1484
—, deposits, *Australia, Queensland, Gilberton area*, from pegmatites, 84M/2579
Bismuthinite, *Germany, Clura mine*, occurrence, paragenesis, 84M/4562
Bismutite, *Japan, Ukyoku, Narabigaoka*, occurrence, X-ray data, 84M/4591; *Pacific Ocean, Costa Rica rift*, secondary, in basalt, 84M/2182
Bismutotantalite, and Sb-bismutotantalite anals., 84M/1937
Bituminous rocks, *Bulgaria, Pernik* and *Kjustendil dists.*, occurrence of moissanite in, 84M/0823
Bixbyite-like minerals, A_2O_3 structural type, crystal chem., 84M/3830
BLACK SEA, sterols, free, esterified, residual bound in Unit I sediments, 84M/0678; marine sediment hydroxyacid content, use as geochem. indicator, 84M/0698; deep basin, age, new data, 84M/2213; *Bulgarian shelf*, heavy minerals in sands, compn., distrib., 84M/1083
'Black smokers', *Pacific Ocean, East Pacific Rise, 21°N*, hydrothermal chimneys, growth history, 84M/2562
Blödite, synthetic, thermal decompn., 84M/2704; *Spain*, in efflorescences in a Typic Salorthid, 84M/0866; *Alcázar de San Juan*, in saline sediments, 84M/2614; *Laguna de Tirez*, in playa lake sequence, 84M/1074; *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270
Blueschists, high-grade pelitic, magnesiochloritoid as key mineral, 84M/3130; *USA, California, Franciscan complex*, high-grade exotic block, metamorphic history, 84M/3561; *Washington, North Cascades*, geochem., 84M/0641
Boehmite, thermochem., 84M/1583
Bohdanowiczite, *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485
Boléite, blue faceted gemstone, brief details, 84M/0500
Bolivia, authigenic smectite on diatom frustules from saline lakes, 84M/0130; franckeite, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216; vivianite, stannite, zinckenite, andorite crystals, new finds, 84M/4571; *eastern Andes*, erosion, apatite fission-track dating, 84M/2365; *Oruro, La Salvadora mine*, large stibnite crystals, description, 84M/2316; *Morococala*, large vivianite crystals, new find, 84M/4570; *San Jose mine*, stannite, large crystal aggregates, new find, 84M/4570; *Poopo dist.*, cylindrite, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216; *Potosi, Chocaya mine, Colorada Veine*, ramdohrite, cryst. struct., implications for andorite group, zinckenite, 84M/0194
Boltwoodite, *Namibia, Swakop area*, yellow crystals, anal., twinning, data, 84M/3122
Bonds and bonding *v.* crystal chemistry
BONIN (OGASAWARA) ISLANDS, boninite, petrogenesis, chem. and Nd-Sr isotopic constraints, 84M/1731; heulandite intermediate in heulandite-clinoptilolite series, props., 84M/4245
Boninite *v.* lava, boninite
Borate, class of pigments for vitreous enamel industry, 84M/2608
—, minerals, standard free energy of formation, estimation, method, 84M/1604
—, polyhedra, distortions and polymerization, quantum mechanical studies, 84M/2499
Borates, Ca-Mg and Ca-Mn, struct., chem., comparisons, 84M/0204; Na-borates in system $NaOH-B_2O_3-H_2O$ at 250°C, XRD study, 84M/2695
Boreholes, *England*, 6 drilled by IGS, 1982, details, 84M/0922; *Northern Ireland*, >150m deep drilled since 1947, log details, locations, 84M/1990; *Co. Antrim, Larne no. 2 borehole*, discovery of new Permian volcanic centre, 84M/1991
Borneo v. Indonesia
Bornite, *England, Cornwall, Fal Estuary*, diagenetic in sediments, 84M/2967; *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Boron, in geol. samples, anal. by nuclear method, 84M/1249; future in USA and World economy, (book), 84M/1256; role in granitic melt generation, 84M/1555; various positions in tourmaline lattices, 84M/2513; content in sillimanites, 84M/3128; *Poland, Mazowsze-Lublin trough*, in Carboniferous sediments, geochem., 84M/1758; *China, Hubei Prov., Basin Q*, in Tertiary saline formation, geochem., 84M/1746; *Canada, St Lawrence Estuary, off Rimouski*, content in sediments, 84M/2979
—, compounds, B_2O_3, detn., anal. method, 84M/0070; B_2O_3, detn. in glass by XRF, 84M/2402
Bostwickite, *USA, New Jersey*, description, 84M/4606
Boudinage *v.* rock deformation
Bournonite, *Romania, Blazna-Guset mining area*, in stratabound ore deposit, 84M/1463; *Peru, Lima, La Oroya*, crystals, new find, 84M/4570
Brannerite, *Belgium, Daverdisse*, in quartzite, quartz veins, 84M/1483; *Switzerland, Affeier*, in Permocarboniferous strata, min., origin., 84M/0250; *Czechoslovakia, Novoveská Huta*, occurrence, anal., 84M/0836; *India, Bihar, Singhbhum shear zone*, occurrence, comparison with South African, Canadian, 84M/0835; *Canada, Elliot Lake area* and *South Africa, Pongola Basin*, grains in Precambrian quartz-pebble conglomerates, 84M/3860
Braunite, *Japan, Tokyo Pref., Shiromara mine*, in Mn-ore, 84M/4603
BRAZIL, Precambrian U and Au-bearing quartz-pebble conglomerates, genesis, 84M/0261; granitic weathering, 84M/3765; crystal structure, growth fabric, twinning of length-fast chalcedony from agate, 84M/3816; antigorite, thermal transformation, electron optical study, 84M/4027; *central eastern*, Archaean terrains, review, 84M/4346; *south*, goethite, hematite in climosequence, application to kaolinitic soil classification, 84M/0146; *Amazon basin*, geol. reconnaissance, results, 84M/4345; *Jacupiranga complex*, Mg, Mn, Nb-rich ilmenite from carbonatites, 84M/3193; *Paraná, Tibagi River deposits*, oriented enstatite inclusions in diamond, 84M/4248; *Paraná basin*, low-*P* evolution of basalt sills, borehole evidence, 84M/4402; *Bahia, Brumado, Pedra Preta quarry*, sellaite, largest known crystals, morphology, props., 84M/1920; *Jequié*, radioactive element distrib. in Archaean granulite terrain, 84M/3006; *Lagoa Real*, U enrichment in Archaean crustal basement assoc. with overthrusting, 84M/2855; *Ceará, Pualí* and *Maranhão States*, geol. reconnaissance, results, 84M/4344; *Goias, Crixas greenstone belt*, ultramafic lava flows, 84M/2062; *Niquelândia complex*, textural features, olivine fabrics, use as petrogenetic indicators, 84M/2050; *Minas Gerais*, beryl, natural etch pits, relation to structure, 84M/0160; *Córrego Frio mine and vicinity*, type locality for brazilianite, occurrence, min., mining history, 84M/2331; *Diamantina, Dattas*, Zn-bearing senaite, comparison with American, 84M/1882; *Piumhi*, komatiites and assoc. rocks, *RE* element geochem., 84M/2959; *Salitre Island*, strontian-loparite, new mineral, data, 84M/3252; *Serra do Espinhaço*, spessartine in quartzites, 84M/3127; *Ouro Preto, Capao mine*, topaz, andalusite mining, 84M/0490; 'imperial' topaz deposit, hist., geol., genesis, recovery, enhancement, 84M/0491; *Paraiba, Sitio Garguelo*, angular agates, possible origin, 84M/2766
Brazilianite, gemmological props., ident., discovery, 84M/1647; *Brazil, Minas Gerais, Córrego Frio mine and vicinity*, type locality, occurrence, min., mining history, 84M/2331
Breccia, *Norway, Skaget*, fluidization, in granite, 84M/2053; *Alps, Gran Paradiso area*, cargneule, Triassic, tectonic significance, 84M/3476; *India, Rajasthan, Pipela area*, volcanic, occurrence in amphibolited, 84M/3549
Breithauptite, reflected light study, 84M/3566; *India, Kolar*, new locality, anal., 84M/3883
Brine, solubility of noble gases in, 84M/0365; oil-production, sorption of ^{226}Ra from by sediments, soils, 84M/1534; from oil fields, possible ore-forming solns., 84M/3863; hydrothermal, alteration of clay minerals, zeolites in, 84M/3932; hydrothermal solns., solubility of CO_2 in, calculation, 84M/3969; subsurface, origin, effects of osmosis, comment, 84M/4137; reply, 84M/4138; hot vadose, role in mineralization, genetic indicators of ore deposits, 84M/4165; *Iceland, Reykjanes*, $CaCl_2$-, origin, insights from mass balance calculations, 84M/0516; *Israel, coastal plain*, oilfield, history, Sr-isotope evidence, 84M/0656; *Red Sea*, akaganéite micro crystals in, 84M/0837; *Red Sea, Atlantis II Deep*, hot, akaganéite and wüstite content, 84M/2971; *Western Australia, Yilgarn block*, heavy metals in, 84M/0657
Britain v. Great Britain
British Isles v. Great Britain, Ireland
Brochantite, *Germany, Ramsbeck*, occurrence, 84M/4560; *Austria, Styria, Johnsbach*, occurrence, description, 84M/2303;

Brochantite (*contd.*)
Czechoslovakia, Smolník, new occurrence, 84M/1180
Bromine, detn. in USGS standard marine mud (MAG-1), 84M/0717; *south Poland*, in Bochnia evaporites, new Br/Cl ratio detn., 84M/1750; *Egypt, Lake Qarun*, high concentration in saline minerals from brine, 84M/1744; *China, Hubei Prov., Basin Q*, in Tertiary saline formation, geochem., 84M/1746
Brookite, *Italy, Genoa, Monte Bregaceto*, large platy crystals, 84M/4566; *Japan, Kyoto Pref., Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320
Brucite, formation from hydromagnesite at 150°–200°C, 84M/0435; high-resolution TEM study, 84M/0775; *USSR, Vozhminskii massif*, fibrous veins in serpentinite, 84M/3221; *Italy, Trento, Ala*, from thermally metamorphosed marble, hydrothermal expts., 84M/2694; *Japan, Irazuyama*, occurrence, X-ray data, 84M/4580
—, -like compounds, divalent metallic hydroxides, structural and IR relations, 84M/3835
—, -periclase equilibrium, at reduced H_2O activities, 84M/0400
Brugnatellite, *Japan, Irazuyama*, occurrence, X-ray data, 84M/4580; *Gifa Pref., Naradani*, occurrence, X-ray data, 84M/4584; *Kumamoto Pref., Mashiki town*, mixed with pyroaurite, coalingite, X-ray data, 84M/4590
Brushite, growth using silica gel technique, exptl. study, 84M/0388; crystals grown rapidly in silica gel, relationship between morphology and structure, 84M/0441
Buddingtonite, *Japan, Iwate Pref., Tōshichi Spa*, replacing plagioclase, props., 84M/4241
Buergerite *v.* tourmaline
Building stones, *Belgium*, Tertiary, microscopic, heavy mineral study, 84M/1992; *Switzerland*, Solothurn limestone, lithology, min., quarries for, uses, 84M/0927; *Freiburg, Boulevard Pérolles*, petr., occurrence, 84M/0928; *Zurich* and *St. Gallen*, weathering of, petr., chem., 84M/0929
Bulachite, *Germany, Neubulach*, new mineral, data, 84M/3229
BULGARIA, Au in pyrite, chalcopyrite of 'Elacite' porphyry Cu deposit, 84M/0819; *central north*, volcaniclastic component in Upper Cretaceous sedimentary rocks, 84M/2055; *south*, Fe distrib. in plagioclase from granites, 84M/0801; sphenes from granitoids, geochem. of *RE* elements, 84M/1664; Nb, Ta in granitoids, geochem., 84M/1725; *Asarel ore field*, secondary quartzite massif in, position morphology, internal structure, 84M/0934; *Borovitsa region*, glass inclusions in quartz phenocrysts in acid volcanites, 84M/0976; *Burgas dist.*, Mg-Fe-micas from Cu-Mo ore veins, pegmatites, comparisons, 84M/0791; *Burgas dist., Rosen Co-Mo deposit*, zonal phlogopite crystals, cause, 84M/0792; *Rosen ore field*, apatite, quartz, calcite, thermometry, 84M/1417; *Čelopeč orefield, Vozdol deposit*, min. characterization, 84M/1488; *Grănčarica deposit*, tungstite, hydrotungstite, ferritungstite, first Bulgarian occurrence, 84M/0842; *Haskovo dist., Sv. Marina*, millerite, polydymite, vaesite from polymetallic ore deposit, 84M/1487; *Madan dist., Mogilata Pb-Zn deposit*, epitaxic quartz overgrowths on calcite, origin of peculiar morphological quartz crystals, 84M/0806; *Malko Târnovo intrusive*, structure, importance for Cu mineralization localization, 84M/1489; *Medet Mo-Cu deposit*, Co-pyrite, Ni-pyrite, carrollite inclusions in chalcopyrite, 84M/0846; *Obročišta*, P distrib. in minerals of Mn agglomerates, 84M/1687; *between Ogosta* and *Jantra rivers*, clay component in Mesozoic sediments, min., genesis, 84M/1330; *Pernik* and *Kjustendil dists.*, moissanite from bituminous rocks, 84M/0823; *Pleren dist., Kreta*, 'neptunian' dykes in limestones, 84M/2211; *Plovdiv graben*, central Alpine magmatism in basement, evolution, 84M/0935; *Rhodope Mtns., Borino-Tešel graben*, Palaeogene sedimentary rocks, lithostratigraphy, 84M/1084; *Kenan Dere deposit*, negative crystals in sphalerite, morph., genesis, 84M/0852; *E. Rhodope Mtns., Madžarovo deposit*, vein-type alunite, opt., morph., chem., 84M/0865; *Rhodope Mtns., Susam* and *Svetline*, secondary quartzites, new data, 84M/1110; *Samokov dist., Markova Trapeza deposit*, andalusite, corundum, tourmaline in pegmatite, 84M/0777; *Sliven area*, quartzitic sandstones, lithology, 84M/2212; *Sofia dist., Kremikovci deposit*, paraschachnerite, occurrence, anals., 84M/0822; delafossite, occurrence, anals., 84M/0834; *central Srednogorie*, granitic intrusions, K/Ar age studies, 84M/1209; *Strandža Mtn., Propada deposit*, new Cu-Fe-Bi-sulphide, 84M/0898; *West Balkan Mtns., Sokolec*, stratiform polymetallic deposits, structural characteristics, 84M/1464
Bunsenite, occurrence in Cu converter slags, microprobe anal., 84M/2670
Burbankite, *Poland, Tajno intrusion*, in carbonatite, XRD, DTA, TG, IR data, 84M/0972
BURMA, geol. of (book), 84M/0080, 84M/0081; *Indoburman orogenic belt*, ophiolite complexes, occurrence, 84M/1048; *Mogok*, 1·7 carat painite crystal, second known example, 84M/0828; Maw-sit-sit, chrome jadeite component is first terrestrial occurrence of ureyite, 84M/0828; rubies from gemstone tract, review, 84M/4040
Burtite, *Morocco, El Hamman*, new mineral, 84M/0879
Buserite, todorokite-buserite problem, implications for marine Mn-nodule min., 84M/3206; *Indian* and *Pacific Oceans*, in Fe-Mn concretions, 84M/1885
Bustamite, inversion boundary with johannsenite, exptl. detn., 84M/4023; *USSR, Tuva, Khadyn Fe deposit*, Fe-rich, opt., XRD, anals., 84M/4222; *Japan, Shiga Pref., Ishibe mine*, occurrence, anals., props., 84M/4221

Cabriite, *USSR, Norsl'sk, Oktyabr'sk deposit*, new mineral, props., 84M/1926
Cacoxenite, cryst. struct., 84M/3852
Cadmium, anal. by flame atomic absorption, improved background correction, 84M/0071; spectrophotometric detn. by flow-injection anal., 84M/2419; detn. in EDTA soil extracts by AAS, 84M/2432; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; transportation, purification in streams, mechanism, 84M/3014; native, physico-chem. formation conditions, in igneous magmas, 84M/4093; *England*, in urban dusts, soils, nationwide survey, 84M/1517; *Avon, Avonmouth*, soil, plant concentrations near smelter, 84M/1518; *Belgium*, content in Fe-sulphides, 84M/1897; *River Meuse* and *France, River Garonne* and *Gironde Estuary*, adsorption on hydrous oxides, application of model, 84M/2632; *Austria, Attersee*, enrichment in polluted lake sediments, 84M/2618; *Japan*, content in river bottom mud, 84M/1537; *Atlantic, Caribbean* and *Pacific Oceans*, distrib., 84M/0646
—, compounds, 5 large-period CdI polytypes, struct., 84M/0206; polytypes of CdI, structures of 20 new, 84M/0207; CdI_2, 20 new polytypes, structures, 84M/1408; CdS, electronic structure, 84M/1391; Cd-tetrahedrite, substitution of Ag in, 84M/1591; CdO, thermal expansion data, 84M/4536
—, ions, Cd^{2+}, adsorption by Na-montmorillonite at low surface coverage, 84M/1285
Caesium, *USSR*, potential source from Cs-biotite, 84M/1852; *China, Fujian Prov.*, in rare-metal pegmatite, geol., geochem., 84M/1476; *USA, Wyoming, Yellowstone Natl. Park*, in analcite, selective concentration during hydrothermal alteration, 84M/0523
—, compounds, $CsAlSiO_4$, alteration in hydrothermal fluids, nuclear waste implications, 84M/1541
—, isotopes, ^{137}Cs, diagenesis and mobility in nearshore sediments, lab. study, 84M/3019; *USA, Cape Lookout Bight*, ^{137}Cs sediment geochron., 84M/2984; *Narragansett Bay*, coastal mobility of fallout produced, model and real data, 84M/0321; *USA, South Carolina*, ^{137}Cs, reversible ion exchange fixation, mobilization from reservoir sediments, 84M/0327
Cainozoic rocks, *Canada, British Columbia, Clearwater-Wells Gray area*, volcanic rocks, petr., 84M/4416
Calamine, use in Indian medicine, 84M/1527; *v.* also hemimorphite, smithsonite
Calaverite, *Japan, Hokkaido, Daté mine*, new occurrence, paragenesis, 84M/1901
Calc-alkaline rocks, *Italy, north western Alps*, Oligocene volcanic, petrogenesis, 84M/4106; *Italy, Sardinia, Mt Seda Oro*, min. evolution, 84M/4371; *China, Zhejiang Prov., Tongla*, volcano-intrusive complex, geochem., 84M/4112
Calcioferrite, probable Fe^{3+} analogue of montgomeryite, 84M/1917
Calciostrontianite, extremely rare from charoite-bearing rocks, 84M/0799
Calciovolborthite, *USA, Arizona, New Water Mtns.*, occurrence, 84M/2327
Calcite, Ostwald ripening in soln., kinetics, 84M/0375; overgrowths, incorporation of Mg^{2+}, Sr^{2+}, influences of growth rate, soln. compn., 84M/0380; crystal growth in gels

Calcite (*contd.*)
lab. study, 84M/0385; deep-sea dissolution, theoretical predication for base of uniform size particles in well-mixed sediment, correction, 84M/0431; heterogenous nucleation, 84M/0432; effect of mechanical energy on finely ground, 84M/0433; standard for EM, electron microprobe anal., 84M/0728; ovoidal sand crystals from Miocene fluvial sediments, 84M/0869; sedimentary, growth defects in, TEM study, 84M/0870; sedimentary, microstructures in, 84M/1398; polymorphs, calcite-aragonite transition, 84M/1596; texture development in experimentally induced ductile shear zones, 84M/1598; settled oceanic slurries, pH decreases in as function of Pallman effect, discussion on previous paper, 84M/1753; reply, 84M/1754; further comment, 84M/1755; magnesian, low-*T* occurrence, solubility, solid solution behaviour, 84M/1910; deformation of fibrous, example of linear rock fabric influencing folding, strain patterns, 84M/1976; stalagmitic, overestimate of ESR dates due to lab. heating, 84M/2366; quantitative XRD anal., 84M/2407; K, Na uptake, 84M/2705; dissolution kinetics, surface speciation and origin of variable pH dependence, 84M/2706; biogenically produced magnesian, inhomogeneities in chem., phys. props., comparison with synthetic, 84M/3219; synthetic, thermally and mechanically induced shape changes in fluid inclusions, 84M/3956; dissolution under high-P_{H_2O}, observation, 84M/3963; thermodynamic solubility product, dependence on ionic models, 84M/3994; solubility in sea-water at various salinities, *T*, $P = 1$ atm., 84M/3996; pink iceland spar, electron-optical props., 84M/4273; *Scotland*, *Islay*, magnesian, recent submarine cement in gravel, 84M/1064; *Poland*, *Machów*, from native S deposit, 84M/0868; *Michalowice*, druses, formation conditions, 84M/4479; *Strzegom massif*, pegmatitic, fluid inclusion study, 84M/4369; *Tajno intrusion*, manganoan in carbonatite, 84M/0972; *Belgium*, *Poppelsberg*, fluid inclusions in from Pb/Zn mineralized area, 84M/1809; *Switzerland*, *Doldenhorn nappe*, in syntectonic veins, origin, C-isotope ratio detn., 84M/0633; *Helvetic nappes*, fabrics in natural shear environment, 84M/4321; *Spain*, *Alcázar de San Juan*, in saline sediments, 84M/2614; *Bulgaria*, *Mogilata Pb-Zn deposit*, epitaxial quartz overgrowths on, 84M/0806; *Rosen ore field*, thermometry, 84M/1417; *India*, *Karnataka*, *Chiknayakanhalli dist.*, occurrence, anals., DTA, 84M/4275; *Japan*, *Iwate Pref.*, *Takayama*, bipyramidal crystals, crystallography, 84M/4587; *Tanzania*, *Kerimasi volcano*, pseudomorphs after nyererite in natrocarbonatite, 84M/2059; *USA*, *Arizona*, *Camp Verde*, pseudomorphs after glauberite, 84M/2322; *Glove mine*, occurrence, 84M/4609; *Magma mine*, twinned crystals, 84M/2321; *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *Argentina*, Mg-bearing, occurrence in Pampean soils, 84M/0147
Calcite-aragonite transition, theoretical approach, application to lab. expts., 84M/3995
Calcium, in pelecypod shells, AAS anal., 84M/1745; detn. in fossil gastropods, bivalves, 84M/2838; *Italy*, *Sardinia*, *Sant' Antioco Isthmus*, content in Plio-Pleistocene sediments, 84M/1747
—, compounds, Ca_2As_3, structure, 84M/3841; $CaCO_3$ in sediments and soils, rapid and precise anal. by vacuum-gasometric method, 84M-0068; surface coatings, influence on oxidation, sorption of arsenite by MnO_2, 84M/0097; dissolution, precipitation, kinetics, 84M/1595; polymorphs, aragonite-calcite transformation, 84M/1596; polymorphs, precipitation, explanation, 84M/2707; $CaCl_2$ in aqueous soln., electrical conductances, ionization constants to 400°C, 4000 bars, 84M/1603; $CaCr^{2+}Si_4O_{10}$, compressibility, high-*P* pleochroism, 84M/4524; CaO, detn., anal. method, 84M/0070; high-*T* vaporization, 84M/0417; thermal expansion data, 84M/4536; Ca-phosphate, precipitation using silica gel technique, exptl. study, 84M/0388; silicates, crystal growth from melts, fluxes, hydrothermal solns., bibliog., 84M/0464; silicate, thermal conductivity under He as function of *T*, P_{He}, 84M/4532; synthetic $CaSO_4.0{\cdot}8H_2O$, struct., 84M/0198; $CaTiO_3$, $CaZrO_3$, crystal structure, 84M/1387; *Sultanate of Oman*, $Ca(OH)_2$, precipitated from groundwater, significance to serpentinization, 84M/3205
Calcrete, and other soils in Quaternary limestones, structures, processes, applications, 84M/1092; *Western Australia*, *Yeelirrie*, uraniferous, geochem. of water from, 84M/1787; *South Australia*, pedogenic in vadose zone of Quaternary calcareous dunes, 84M/2222
Calderas *v.* volcanic calderas
Caledonite, *Scotland*, *Leadhills-Wanlockhead*, discovery, mining hist., 84M/1172
Caledonian rocks, variation in chem., Nd-Sr isotopes across calc-alkaline volcanic arc, comment on previous paper, 84M/1718
—, orogeny *v.* orogenies
Caledonides, *Scandinavia*, cross section through, construction using branch-line maps, 84M/1946; ophiolite fragments in, 84M/2127; *south Norway*, Devonian tectonic deformation in, regional perspectives, 84M/1983; *Ireland*, *Co. Mayo*, *Clew Bay*, ortho-, para-tectonic, separation by ophiolitic mélange, 84M/3454
Californium compounds, CmO_2, thermal expansion data, 84M/4537
Cambrian rocks, *Scotland*, stratigraphy, 84M/0911; structure, palaeogeog., 84M/0912; *south Sweden*, *Öland* and *Denmark*, *Bornholm*, high-alumina glauconies from, 84M/2205
—, fossils *v.* fossils
Camptonite, *Norway*, *Hadeland*, *Gran*, sills, geol., 84M/4355
CANADA, Geol. Survey radiocarbon dates, 84M/0047; Precambrian U and Au-bearing quartz-pebble conglomerates, genesis, 84M/0261; proposed Proterozoic sutures, geophys., 84M/1197; Au in Huronian supergroup, origin, distrib., 84M/2583; granitic pegmatites, light stable isotope systematics, 84M/2943; Tectonics Group, rept. of 2nd meeting, 84M/3321; Na-pyrophosphate extracts of soils, removal of suspended material from, 84M/3716; Au deposits, geol., special volume, 84M/3896; *western*, pyrite metamorphism, deformation and recrystallization, 84M/0845; playa lakes, sedimentology, 84M/4467; *Canadian Shield*, Archaean chemical weathering, 84M/2776; Late Archaean Fe-formations, S-, C-isotope studies, rise of sulphate reducing bacteria, 84M/3005; *eastern Canadian Shield*, geochem. discontinuity in Proterzoic mantle, isotopic evidence, 84M/2777; *Western Cordillera*, baryte, isotopic compn., possible derivation of oceanic sulphate $\delta^{34}S$, $\delta^{18}O$ age curves, 84M/2832; *Arctic area*, *Freemans Cove*, primitive nephelinitic volcanism assoc. with rifting, uplift, 84M/4393; *Rocky Mtns.*, *Fairmont Hot Spring*, geothermal activity in karstic terrain, noble-gas evidence, 84M/0663; *Strait of Bell Isle area*, Precambrian rocks, Lower Palaeozoic autochthonous strata, Hare Bay allochthon geol., 84M/0947
—, ALBERTA, aliphatic carboxylic acids in buried Ah horizons, palaeoenvironmental indicators, 84M/0674; *Athabasca oil sand deposit*, *in situ* oil recovery, application of fluid-rock reaction studies, aqueous phase results for exptl. water-bitumen-shale reactions, 84M/0395; min. transformations in exptl. water-bitumen-shale reactions, 84M/0396; clays from surficial deposits, min., O-isotope geochem., 84M/3770; *Cold Lake*, Clearwater formation reservoir sandstones, provenance, feldspar compn., 84M/3493; *Cypress Hills*, loess, origin, petr., 84M/2224
—, BRITISH COLUMBIA, porphyry Cu-Mo deposits, metallogeny and tectonics, 84M/0215; Ag biogeochem., prelim. studies, 84M/4185; *north*, geothermal measurements, 84M/4552; *Atlin*, *Surprise Lake batholith*, U mineralization, lithogeochem., 84M/2938; *Cache Creek*, challantite in mendozite, second occurrence, 84M/3218; *Central Gneiss complex*, anatexis, migmatite formation, 84M/2243; *Chilcotin basalts*, regional strat., age., 84M/0044; *Clearwater-Wells Gray area*, Late Cainozoic volcanic rocks, 84M/4416; *Coryell batholith*, U in alkaline intrusions, 84M/2925; *Ecstall pluton* and *Central Gneiss complex*, U-Pb dates, 84M/1219; *Guichon Creek batholith*, evolution, behaviour of U, Th, tr. elements during, 84M/2927; *Itcha Mtn. Range*, hawaiites, origin, 84M/2039; *Kootenay Arc*, K/Ar dates, early Tertiary resetting, 84M/0045; *southern Kootenay Arc*, Jurassic to mid Cretaceous magmatism, metamorphism geochron. and tectonic implications, 84M/4337; *Kuskanax batholith*, U-Pb zircon age, 84M/2360; *Mica Creek*, garnet amphibolites, phase equilibria, geobarometry, geothermometry, 84M/1148; *Monashee Mtns.*, *Scrip nappe*, stratigraphy, deformational history, 84M/0946; *Okanogan Lake region*, Palaeozoic(?), Mesozoic, Cainozoic intrusive rocks, Rb/Sr dating, 84M/2359; *Okanogan Highlands*, intrusive complex characteristics, source for basalt-type U deposits, 84M/2926; *Penticton*, geothermal energy from Tertiary outlier, 84M/4551; *Revelstoke area*, brittle deformation in Columbia River fault zone.

CANADA, BRITISH COLUMBIA (*contd.*) 84M/4510; *Sullivan orebody*, deposition environment, 84M/1504; structural evolution, 84M/2603; *Tulsequah area*, Palaeozoic volcanic rocks, volcanogenic massive sulphide deposits, 84M/4336; *Vancouver Island*, CO-CRUST seismic study of convergent margin, 84M/1196; *Rupert mine*, interstitial water metabolic chem. in marine mine tailings dump, 84M/3946; *Williston basin*, hydrocarbon traps, creation, role of early dolomitization, 84M/4466

—, LABRADOR, $^{40}Ar/^{39}Ar$ anal. of metamorphic biotite, hornblende, recognition of extraneous Ar components, 84M/0041; uraniferous granites, geochem., geol., 84M/2942; northern margin of Grenville province, anatomy of ancient orogenic front, 84M/3557; *north*, Archaean metabasic dyke, Nd, Sr isotopic crustal contamination patterns, 84M/4124; Archaean gneiss complex, min. ages, secondary isochrons, Sr diffusion, 84M/0640; *Flowers River* and *Letitia Lake complexes*, peralkaline granite volcanic centres, correlation, 84M/1011; *Kiglapait aureole*, geothermometry, 84M/4483; *Nain complex*, fractional crystallization, magma mixing in layered intrusion, 84M/3392

—, MANITOBA, *Bird River sill*, Pt-group minerals in chromite, 84M/1872; *Molson Lake—Red Sucker Lake area*, airborne radiometric anomalies from late kinematic granitic rocks, 84M/2935

—, NEW BRUNSWICK, albertite, structure, 84M/3227; *north*, reclamation, pollution at severely disturbed mine site, 84M/2621; *south*, potash deposits, geol., 84M/3928; *Bathurst area*, zoned sodic amphibole, indicator of changing *P*, *T* during tectonism, 84M/4227; *Brookville gneiss*, age, discussion of previous paper, 82M/0039; *Shaw's Cove*, Ti-phlogopites from minette, comparisons with other micas, 84M/4232

—, NEWFOUNDLAND, *south east*, east-west correlation of Proterozoic formations, significance of new tillite finds, 84M/3492; *Ackley City batholith*, evidence for crystal *vs.* liquid-state fractionation, 84M/2919; *Appalachians*, *Dunnage zone*, Overflow Pond granite, age, contact metamorphic effects, 84M/2358; *Bay of Islands complex*, *P-T* conditions during ophiolite emplacement, 84M/1053; *Bay of Islands complex*, *North Arm massif*, sheeted dykes and assoc. rocks, structure, 84M/1054; *Cape Ray fault zone*, geol., structural history, 84M/2001; *Hare Bay*, diopside-bearing harzburgites from ophiolites, equilibrium state, geodynamic, geobarometric implications, 84M/4015; *Indian Bay Big Pond*, fossiliferous volcanogenic rocks, first occurrence, regional significance, 84M/4335; *Moretons Harbour area*, As-Sb-Au mineralization, geol. and fluid controls on, 84M/3897; *St. Anthony complex*, ophiolite emplacement, record in dynamothermal aureole, 84M/2130; basal section, structural evolution, 84M/3558; *White Hills peridotite*, spinel phases, 84M/2129; *Topsails* and *St Lawrence complexes*, amphiboles, magmatic-subsolidus and oxidation trends in compn., 84M/4226

—, NORTH WEST TERRITORIES, *Baffin Island*, *Fury* and *Hecla Strait area*, uraniferous granites, 84M/2933; *Fort Smith* and *Fury* and *Hecla*, radioactive granite, radiometric study, 84M/2932; *Franklin dist.*, *Baffin Island*, *Nanisivik deposit*, mesophase development in bitumen, 84M/4482; *Coppermine River area*, basaltic rocks, geochem., petrogenesis, 84M/0586; Precambrian basalts, tr. element geochem., 84M/2897; *Devon Island*, *Haughton structure*, meteorite impact structure, structural, morphological aspects, 84M/1820; *Mackenzie dist.*, *Great Slave Lake*, *East Arm*, Lower Proterozoic red beds, evaporites, secondary sedimentary U deposits, 84M/2582; cogenetic monzonitic laccoliths, comparative petrochem., genesis of U-bearing veins, 84M/2931; *Hornby Bay group*, Proterozoic aeolian quartz arenites, implications for Precambrian aeolian processes, 84M/2223; *Hudson Bay*, *Belcher Islands*, Middle Precambrian dolostone sequence, evolution, dolomitization regimes, 84M/1102; *Melville Penin.*, anomaly '60', uraniferous granitic pluton, 84M/2934; *Muskox intrusion*, timing of emplacement, constraints, 84M/1008; *Pine Point area*, fluid migration from compacting shales, geophys. log documentation, 84M/2557; $^{87}Sr/^{86}Sr$ ratio measurements on sulphides, carbonates, fluid inclusions, increase accompanying mineralization, 84M/2837; *Redstone*, diagenetic stratiform Cu mineralization, comparison with Zaïrian, 84M/2580; *Selwyn Basin*, *Vulcan prospect*, stratiform sulphide, baryte, barytefluorite mineralization, 84M/3927; *Wopmay orogen*, primary aragonite precipitation, evidence from Proterozoic dolomite, 84M/3494; *north central Wopmay orogen*, pelitic rocks, geothermometry, geobarometry, 84M/4509; *Yellowknife*, *Blachford Lake complex*, petro, chem., 84M/2930

—, NOVA SCOTIA, mesolite, structure, ESCA study, 84M/1867; early Mesozoic tholeiites, tr. element geochem., 84M/2897; *Cape Breton Island*, granitoid plutons, geochem., 84M/2928; *East Kemptville*, triplite, occurrence, anal., 84M/1913; *Ellison Lake pluton*, cordierite-bearing monzogranitic intrusion, 84M/3393; *Pugwash Harbour*, U-rich reduction spheroids in sandstone, 84M/2980; *South Mountain batholith*, U, Th in granitoid rocks, geochem., distrib., genetic and exploration implications, 84M/2923; *Sydney* and *Pictou coalfields*, coal rank changes, 84M/4553

—, ONTARIO, crescentic granitoid plutons in Archaean greenstone terrain, strain patterns, 84M/1973; *south*, marl lake waters, isotopic, geochem. compn., implications for marl radiocarbon dating, 84M/0660; enriched ^{13}C in freshwater lake sediment interstitial water, 84M/0662; *Abitibi greenstone belt*, *Alexo*, olivine, clinopyroxene spinifex flows, comparative study, 84M/2041; *Atikokan area*, fracture filling gypsum in Archaean granite, S-isotope geochem., 84M/0322; *Atikokan*, *Eye-Dashwa pluton*, age of fractures in, 84M/1218; *Bad Vermilion Lake anorthosite complex*, Archaean anorthosites origin, evidence, 84M/1149; *Bancroft*, *Madawaska mines*, U-bearing pegmatite dykes, influence of metamorphosed gabbro in control, 84M/2937; *Blind River*, 'brannerite' from conglomeratic U deposits, comparison with Indian, 84M/0835; *Chapleau-Foleyet area*, high-grade metamorphism, 84M/2275; *Chapleau-Foleyet area*, *Kapuskasing zone*, U/Pb geochron., 84M/0042; *Coldwell complex*, Rb/Sr geochron., discussion of previous paper, 84M/1217; gravity study, petr. significance, 84M/3391; Rb/Sr geochron., 84M/3667; *Confederation Lake area*, repetitive cyclical basalt to rhyolite volcanism, geochem., 84M/1735; *Elliot Lake U district*, Precambrian weathering, topographic control, 84M/2581; *Elliot Lake*, uraninite-bearing conglomerates, possible use in detn. of O content of early Proterozoic atmosphere, 84M/2774; S isotope abundancies in clastic rocks, implications for coeval atmosphere, 84M/2775; radioactive granite, radiometric study, 84M/2932; U-Ti phases from Precambrian quartz-pebble conglomerates, 84M/3860; *Elzevir batholith*, petrogenesis, 84M/1009; *English River subprovince*, Archaean granitoid gneisses, O isotope geochem., 84M/4128; *Grenville structural prov.*, heterogeneous granitoid rocks from radioactive occurrences, min., petr., chem., 84M/2924; *Kenora*, Proterozoic mafic dykes, geol., petr., 84M/1010; Archaean granitoid plutons, petrogenesis, 84M/4395; *Kingston* to *Lac St Jean*, rocks and minerals, list, 84M/4605; *Lake Erie*, Mn-rich microparticles in eastern basin, 84M/0661; *Lake Superior Park*, bimodal volcanism in Archaean greenstone belts, greywacke compn. evidence, 84M/2040; *Lutterworth Township*, weddellite, occurrence, 84M/1922; *Mamainse Point formation*, magma genesis in Late Proterozoic proto-oceanic rift, *RE* element, tr. element data, 84M/2920; *Manitouwadge*, *Geco mine*, sillimanite, direct derivation from kaolinitic precursor, evidence, 84M/0768; *Maybrun mine*, quench-textured pillowed metabasalts and Cu mineralization, 84M/3915; *McKellar Harbour area*, ultrabasic lamprophyre dykes, Rb/Sr, K/Ar geochron., 84M/0043; *Muskoka district*, deformed granitic rocks, strain anal., 84M/1953; *Princess mine*, sodalite, crystal structure, application to other sodalite group minerals, 84M/3819; *Red Lake*, *Dickenson mine*, alteration, mineralization, metamorphism, 84M/3914; *Sharbot Lake area*, uraniferous pegmatites, 84M/2936; *Silver Crater mine*, betafite, XRF anal., 84M/1888; *South Bay*, sulphide deposit, geol., footwall alteration, 84M/4092; *Sudbury*, As enrichment in lakes near smelters, 84M/2619; *Sudbury Basin*, rock O isotope, chem. compns., 84M/4127; *Strathcona* and *Copper Cliff mines*, pyrrhotite-pentlandite ore textures, kinetics, mechanisms of pentlandite exsolution, 84M/0847; *Superior prov.*, uraniferous granitoid rocks, 84M/2929; probable Archaean nepheline syenite plutons, 84M/4394; *southern Superior Prov.*, horizontal shortening of upward facing greenstone structures, 84M/4511; *Gamitagama Lake complex*, geochem., pe-

CANADA, ONTARIO (*contd.*)
trogenesis, 84M/4396; *Quetico belt*, structural history, 84M/4513; *Upper Manitou Lake*, kink folds in greenstones, 84M/2274; *Wabigoon belt, Meggisi Lake granite*, Archaean metastable feldspars, 84M/1861; *Wawa area*, Archaean volcanic-exhalative system adjacent to trondhjemite stock, 84M/4512; *Wawa, Gutcher Lake*, greenschist facies of Archaean assemblage, 84M/2238; *Wawa, Helen Fe mine*, Archaean felsic volcanism, physical character, 84M/1041
—, QUEBEC, distrib. of silica, sesquioxides, clay in podzolic soils, effects on subsoil cementation, 84M/1345; Appalachian ophiolites, environment of formation, evolution, emplacement, 84M/2131; sensitive clay, structure, Hg intrusion porosimetry and SEM study, 84M/3753; *Abitibi greenstone belt*, Archaean ultramafic lava flow, primary fractionation, secondary alteration, 84M/0585; *south-central Abitibi belt*, tectonic evolution, geomechanical model, 84M/1998; plutonic, metamorphic evolution, geotectonic model, 84M/1999; *Abitibi, Rouyn area*, tr. element variations in soil on glacial-lacustrine sediments, 84M/4145; *Abitibi, Rouyn-Noranda area*, chemostratigraphic division of Blake River group, 84M/4125; Archaean mafic metavolcanics, mobility of major elements, discussion, 84M/4126; *Argenteuil Co., Laurel*, brownish-yellow gem-quality vesuvianite, microprobe anals., opt. props., 84M/1644; *Asbestos, Jeffrey mine*, gem-quality vesuviante, microprobe anals., opt. props., 84M/1644; *Chibougamau, Henderson no. 2 mine*, World's finest cubanite crystals, morphology, anals., 84M/1900; evolution of mineralizing fluids, geomechanical development of shear zone, correlation, 84M/3913; *Gaspé*, illite crystallinity, organic matter reflectance, isotopic techniques, application to mineral exploration, 84M/2556; *southwestern Gaspé*, burial metamorphism, studies, 84M/2276; *Mines Gaspé*, ore-forming fluids in carbonate-hosted porphyry Cu deposit, compn., origin, fluid inclusion study, 84M/0545; *Grenville structural prov.*, heterogeneous granitoid rocks from radioactive occurrences, min., petr., chem., 84M/2924; *eastern Hudson Bay*, metallogenesis of early Proterozoic foreland sequence, 84M/2584; *Ile Bizard intrusion*, kimberlite or lamprophyre, discussion, 84M/2045; *Lac Guyer*, komatiites, basalts, petrogenesis, nature of komatiite-komatiitic basalt gap, 84M/2044; *Lac St Jean* to *Kingston*, rocks and minerals, list, 84M/4605; *Muttagami Lake mine*, hydrothermal coprecipitation of talc, sulphides in sea-floor brine pool, geochem., O-isotope, min. chem. evidence, 84M/1696; *Montauban-les-Mines*, quartzofeldspathic gneisses, origin, 84M/4156; *Mont Jaques Cartier*, halloysite from strongly weathered soil, 84M/0145; *Mont St Hilaire*, petarasite, new data, 84M/0758; sodalite, var. hackmanite, crystal structure, 84M/1379; *Montreal, Francon quarry*, viitaniemiite, occurrence, props., 84M/1915; *Mount Laurier*, Eu anomalies in granite, pegmatite *RE* element spectra, significance, 84M/0584; *Noranda*, chlorites from tuffaceous exhalites assoc. with volcanogenic massive sulphides, compn., oxidation state, 84M/3163; *Noranda, Amulet rhyolite formation*, hydrothermal alteration in an Archaean geothermal system, 84M/1431; *Noranda dist., New Insco Cu deposit*, geol., 84M/1503; *Oka*, periclase-dolomite-calcite carbonatite, calculated volatile compn., 84M/3390; *Renzy Lake ultramafic complex*, amphiboles from, 84M/0788; *St. Honoré*, alkaline complex, evolution, 84M/1997; *St Lawrence Estuary*, P and P-Fe relationships in suspended matter, 84M/3947; *St Lawrence Estuary, off Rimouski*, B content of sediments, 84M/2979; *Thetford Mines, Lac Bécancour*, structural interpretation, application of geophys., 84M/2000; *Ungava, Cape Smith fold belt*, Archaean gneisses, Rb/Sr study, 84M/0040; magma evolution in Proterozoic rifting environment, 84M/2042; pillow shelves, detn. of bedding direction, structural facing direction in deformed pillow lavas, 84M/2043
—, SASKATCHEWAN, *north-central*, crustal electrical conductivity, North American Central Plains anomaly and relation to plate margin, 84M/4548; *McClean U deposits*, geol., 84M/3898
—, YUKON TERRITORY, *north east*, gormanite, new mineral, ferrous analogue of souzalite, 84M/0884; *north east*, wicksite, new mineral, 84M/0896; garyansellite, new mineral, 84M/4284; *south*, geothermal measurements, 84M/4552; *Big Fish River area*, nahpoite, new mineral, 84M/0890; *Faro* and *Last Peak area*, eclogite, record of subduction at ancient North American western margin, 84M/2273; *Klondike schist*, Rb/Sr whole-rock age, 84M/0046
CANARY ISLANDS, *El Hierro*, possible volcanic eruption in 1793, evidence, 84M/3414; volcanological study, 84M/3416; *Gran Canaria*, shield building volcanism, magmatic phases, ages, 84M/0015; welded tuffs, rheomorphism of, 84M/1023; alkali basalts, tr. element partition coefficients between melt/mineral, 84M/2891; *La Palma*, sialic extrusions, 84M/3415
Cancrinite, synthetic, enthalpy of formation, 84M/0477
CAPE VERDE ISLANDS, *Maio*, magmatism, K/Ar, $^{40}Ar/^{39}Ar$ data, 84M/2342; *Santiago Island*, geol., petr., 84M/3417
Cappelenite, crystal structure, 84M/3798
Carbohydrates *v.* hydrocarbons
Carboirite, *Pyrenees*, new mineral, data, 84M/3228
Carbon, organic and carbonate-carbon, detn., rapid method, 84M/0069; organic, burial in sediments over Phanerozoic time, new theory, 84M/0693; linear polytypes, unified structural approach, 84M/2535; atmospheric radiocarbon, effect of thermohaline circulation reduction during deglaciation, 84M/2628; geodynamic cycle, comment, 84M/4067; reply, 84M/4068; *USSR, Udachnaya West pipe*, in carbonaceous material in calcite, isotopic difference from marine carbonates, limestones, 84M/0510; *Tanzania, coastal area*, organic, content in sediments, 84M/3054; *USA, Arizona* and *Red Sea, Sergebet Island*, surface concentration profile in olivine crystals, $^{12}C(dip)^{13}C$ and photo-electron spectroscopical studies, 84M/0519; *Virginia, Chesapeake Bay*, organic in sediments, 84M/0610; *Pacific Ocean*, organic, consumption in sedimentary reduction processes, ^{35}S-^{14}C detn., 84M/0687
—, compounds, CCl_4, liquid-solid transformations, observation under high-*P*, 84M/3963; CO_2, role in chem. modification of deep continental crust, 84M/0626; activity in supercritical aqueous solutions, effect of electrolytes, 84M/1548; atmospheric CO_2, N_2O correction during ^{13}C, ^{18}O anal., 84M/1657; CO_2, deep crustal carbonates as fluid sources, evidence, 84M/2231; adsorption by clinoptilolite, 84M/2284; atmospheric CO_2, effect of thermohaline circulation reduction during deglaciation, 84M/2628; CO_2 in mantle mineral-forming media, new data, 84M/2791; solubility in NaCl-rich hydrothermal solns., calculation, 84M/3969; dry ice II, new polymorph, 84M/4003; atmospheric CO_2, effect of carbonate-silicate cycle on over past 100 million years, 84M/4062; *Czechoslovakia, Slovakia*, CO_2, deep-seated, origin, 84M/0511; *USA, Arizona, Tucson basin*, soil CO_2, stable-isotope compn., 84M/1738; *Hawaii, Kilauea*, concentrations, sources, losses in basalt, 84M/0580; *north* and *south Pacific Ocean*, partial pressure in sea-water, seasonal effects of *T*, salinity, 84M/3020
—, isotopes, ^{13}C, anal. in atmospheric CO_2, correction for N_2O, 84M/1657; compn. in recent stalagmites/stalactites, 84M/1749; variations in individual diamonds, 84M/2816; variations in spectral type II, 84M/2817; $\delta^{13}C$ of carbonatites, relationship with $\delta^{18}O$, 84M/2864; use in dating pre-Holocene groundwaters, 84M/3297; fractionation in scleractinian corals, 84M/4139; compn. in organic matter, microbial alteration, 84M/4169; compn. in amino acids from cultured microorganisms, 84M/4170; meteorite ^{14}C contents, tandem accelerator mass spectrometry results, 84M/4198; *southern USSR*, in mud-volcano gases, isotopic distrib., relation to origin, 84M/2899; *Israel, Ashqelon area*, $^{13}C/^{12}C$ ratio in landsnail shells, annual cycle, 84M/1739; *Australia, Queensland, Einasleigh*, ^{13}C-rich marbles in metamorphic sequence, 84M/0621; *south west African shelf*, distrib. in lipids from Holocene phosphate nodules, relation to genesis, 84M/3055; *Canadian Shield*, studies on Late Archaean Fe-formations, 84M/3005; *Canada, South Ontario*, enriched ^{13}C in freshwater lake sediment interstitial water, 84M/0662; *USA, Arizona*, $\delta^{13}C$ in pinyon pine leaf cellulose, possible climatic response, 84M/3059; *Oklahoma, Woodford Shale*, stable, effects of thermal maturation on, hydrous pyrolysis detn., 84M/3060; *Pacific Ocean*, Miocene stratigraphy using benthic foraminifera, 84M/2962
Carbonate, mantle, source of sodic carbonatites, alkalic magmas, 84M/2655
—, -carbon, detn. in geol. samples, rapid method, 84M/0069
—, minerals, nucleation, polymorphic precipitation, 84M/0384; *Poland, Carpathians*,

Carbonate (*contd.*)
manganiferous carbonate micronodules in flysch, origin, 84M/3477
—, ooids *v.* ooids
—, rocks, explanation of microfractures, joints, application of photoelastic models, 84M/3468; *Austria, Salzburg, Northern Calcareous Alps*, weakly metamorphosed, interpretation of K/Ar, Rb/Sr data from fine fractions, 84M/3647; *Iraq*, for concrete, alkali reactivity, 84M/0302
—, sediments *v.* sediments, carbonate
—, -silicate cycle, effect on atmospheric CO_2 over past 100 million years, 84M/4062
Carbonates, discrimination using portable radio-determining radiometer, 84M/0245; alkali-earth, effect of mechanical energy on finely ground, 84M/0433; rock forming, min., chem., 84M/1252; rhombohedral, phase relations, 84M/1597; sedimentary, tr. elements and isotopes in, 84M/1678; rhombohedral, crystal chem at high *T*, *P*, structure, structural isotypes, solid solution series, 84M/1908; metamorphic, solid solutions and solvi, applications to thermobarometry, 84M/1909; orthorhombic, crystal chem., phase relations, 84M/1911; deep crustal as CO_2 fluid sources, evidence, 84M/2231; interaction with uranyl ions, 84M/2708; Sr-isotope geochem., evaluation, application of ion-microprobe, 84M/2836; rhombohedral, natural Ca, Mn, Fe, Mg, quantitative XRD anal., 84M/2407; 'pelagic' in Variscan belt, sedimentary and tectonic environments, 84M/3259; oscillating trend in Phanerozoic non-skeletal, 84M/3469; stromatolitic, assocn. with sulphate evaporites, glacial sediments, comparison of Australian, Antarctic, 84M/3490; pedogenic, ident. by stable C-isotope, microfabric anal., 84M/3775; *eastern England*, Pliocene skeletal, temperate meteoric diagenesis, 84M/1069; *Wales, Anglesey*, Lower Carboniferous sequence, major, tr. element assoc. and distrib., 84M/0597; *Germany, Aachen region*, Palaeozoic, geochem. studies, 84M/1761; *Switzerland, Alps*, secondary, occurrences, 84M/1178; *Iraq, Makhmour area*, reef/non-reef facies, geochem., 84M/0604; *India, Rajasthan* and *Kashmir*, Quaternary pedogenic, comparative petr., 84M/1332; *West Africa*, Late Proterozoic, Sr-isotope evidence for 'mantle' event ~900 Ma ago, 84M/0602; *South Africa, De Beers mine*, kimberlitic, Sr ratios in, ion-microprobe study, 84M/1679; *Canada, North West Territories, Pine Point*, $^{87}Sr/^{86}Sr$ measurements, increase accompanying mineralization, 84M/2837; *Atlantic Ocean, Blake Outer ridge*, diagenesis of Pliocene/Pleistocene hemipelagic mud, min., geochem., 84M/2199; *DSDP, hole 516F*, Palaeocene to Coniacian, tr. element and stable isotope geochem., comparison with Atlantic, Tethys sites, 84M/2977
Carbonatites, sodic, origin from mantle eclogite and carbonate, 84M/2655; temperature facies, relationship between isotopic pairs $\delta^{13}C$, $\delta^{18}O$, 84M/2864; *southern west Greenland*, age, 84M/1202; *Norway, Finnmark*, geol., geochem., origin of assoc. ultrabasic fenites, 84M/0617; *Scotland, Inverness, Great Glen fault area*, veins, 84M/3497; *USSR, Sea of Azov region, Chernigov zone*, coexisting olivine, magnetite in, 84M/3362; *Kola Peninsula, eastern Sayan*, plutons, K/Ar age, new data, 84M/2347; *East Sayan* and *Ukraine*, magnesian metasomatism in early, 84M/1111; *Ukraine, Novopoltavskiy pluton*, graphite, Ce-fergusonite, hatchettolite in carbonatite veins, 84M/0817; *Poland, Bialystok, Tajno intrusion*, petr., min., 84M/0972; *Germany, Kaiserstuhl*, tuffs, chem., stable isotope anals., comparison with Tanzanian, 84M/0571; *Sudan, Jabal Dumbeir complex*, geochem., age, 84M/0986; *north east Mali*, Permian, discovery, relation to rifting along West African craton, 84M/3369; *Tanzania, Kerimasi*, natro-, first pre-modern natrocarbonatite volcanism, 84M/2059; *Oldoinyo Lengai*, tuffs, chem., stable isotope anals., comparison with German, 84M/0571; *Kenya, Tinderet foothills*, tuffs and lava clasts, study of calcified nitrocarbonates, 84M/3370; *South Africa, Benfontein sill* and *Premier* and *Wesselton mines*, alleged relationship with kimberlites, evidence from ilmenite, spinel, 84M/3371; *Palabora mine*, props. of assoc. 'ferriphlogopite', 84M/4231; *Palabora*, orbicular rhythmic layering in, 84M/4384; *Canada, Quebec, Oka*, periclase-dolomite-calcite carbonatite, calculated volatile compn., 84M/3390
Carboniferous rocks, shales, influence of magmatic intrusions on diagenesis, 84M/3503; *England, Midlands*, volcanicity, 84M/3342; *Derbyshire*, basalt, geochem., petrogenesis, 84M/2870; Dinantian extrusive activity, 84M/4407; *Matlock area*, Asbian, Brigantian limestones, revision of stratigraphy, 84M/1068; *Scotland*, lithology, geol., 84M/0915; igenous, 84M/0916; *Ireland*, Pb-Zn mineralization in, possible relation to Lower Carboniferous rift, 84M/1451; *Silvermines* and *Ballynoe deposits*, lithostratigraphy, 84M/1452; *Co. Kildare, Harberton Bridge*, breccia-hosted Pb-Zn mineralization in, 84M/1446; *Co. Wexford, Duncormick*, Zn mineralization, geol. setting, 84M/1447; *Wales, Anglesey*, Lower Carboniferous carbonate sequence, major, tr. elements assoc. and distrib., 84M/0597; *Germany, Müllenbach U deposit*, host rock alteration during hydrothermal ore formation, 84M/2588; *Rheinische Schiefengebirge*, limestone-turbidites, tectonic significance, 84M/3260; flysch, depositional models, 84M/3261; *Poland, Mazowsze-Lublin trough*, geochem. of B in sediments, 84M/1758; *China, central Guizhan*, bauxite, indicators of sedimentary facies, environment, anal., 84M/4460; *Atlantic Ocean, Blake-Bahama basin*, carbonaceous claystone, geochem., min., 84M/1337
Carbynes, unified structural approach, 84M/2535
Cargneule *v.* breccia
CARIBBEAN SEA, distrib. of Cd, Pb, Cu, 84M/0646; spread of, implications from *Colombian* spilites below Cretaceous strata, 84M/1019; *Mid Cayman rise*, gabbros, submarine metamorphism, petr., min. constraints on hydrothermal processes at slow-spreading ridges, 84M/1055
Carminite, *Germany, Clara mine*, new find, 84M/4559
Carnallite, *Egypt, Lake Qarun*, from brine, geochem., 84M/1744
Carnotite, *USA, Colorado Plateau*, low-grade, extraction of U, V from, 84M/0232
CARPATHIAN MOUNTAINS, *Carpathian Foredeep*, mixed-layer illite-smectite in low-*T* diagenesis, data from Miocene deposits, 84M/3759; *Carpathian foreland*, rock salt deposits, conditions of occurrence, possible further discoveries, 84M/3921; *Malé Karpaty*, metasomatically altered rocks, geochem., 84M/0566; *Maramureş massif*, accessory zircon from schist-gneiss complex, U/Pb dating, 84M/1210; *Veporide area*, compositional zoning in garnets, 84M/0764; *West Tatra Mtns., Krížna nappe*, Upper Triassic-Lower Jurassic sedimentation, lithological-geochem. characterization, 84M/0599; *West Carpathians*, accessory minerals of crystalline rocks, fission-track-isochron dating, 84M/0018; U mineralization, metallogenesis, 84M/0251; sulphidic Ni-Co-Fe ores in ultramafic rocks, 84M/0252; distrib. of tr. elements in magnesites, 84M/0529; U in accessory apatite grains, petrogenetic aspects, 84M/0530; granitoids, I/S classification, genetic implications, 84M/0564; granitic rocks, natural radioactivity, 84M/0567; Fe-group elements in metabasites, geochem., 84M/0635; triclinicity of K-feldspars, use of IR spectroscopy in detn., 84M/0800; granitoids, geol., petr., min., geochem., geochron., prelim. results, 84M/0966; granitoid rocks, classification by mesonorm, 84M/0967; granitoids, petr. characteristics, 84M/0968; Drnava formation, lithology, petr., 84M/1081; *West Carpathians, Horná Prievraná*, tubular halloysite particles in kaolinite deposit, ident., 84M/0120; *Spiš-Gemer region*, stanniferous granites, petr., geochem., comparison with other areas, 84M/0565; *Spissko-Gemerské rudohorie Mtns.*, evolution of mineralization, position, significance of fuchsite in, 84M/0795; *Vepor pluton*, structure, 84M/0970 *v.* also *Poland, Czechoslovakia, USSR* and *Romania*
Carrollite, *Bulgaria, Medet Mo-Cu deposit*, inclusions in chalcopyrite, 84M/0846
Cascandite, *Italy, Baveno*, type locality, description, 84M/2310
Cassiterite, detn. of Sn, W by XRF spectrometry, 84M/0075; fractionation of Zr, Hf in, 84M/0825; occurrence in Cu converter slags, microprobe anal., 84M/2670; *USSR, Kola Peninsula*, inclusions in simpsonite crystals, 84M/0841; *Czechoslovakia, Žiar Mtns.*, occurrence, 84M/0253; *India, Andhra Pradesh, Kanigiri area*, with Cb minerals in granitic rocks, 84M/0575; *Japan, Hokkaido, Toyoha mine*, new occurrence, ore mineral study, 84M/3904; *Kyoto Pref., Gyoja-yama*, occurrence, morphology, 84M/4597; *South Australia, Mount Mitchell Sn workings*, in quartz-greisen veins, sampling, 84M/2599; *Nigeria, Amo Younger Granite complex*, mineralization,

Cassiterite (*contd.*)
geochem., 84M/1726; *USA, Virginia, Flat Rock, Herbb no. 2 mine*, 3½″ crystal, new find, 84M/4571
Catapleiite, *Norway, Langesund area*, co-existing with endialyte-eucolite, geochem., 84M/3133
CAUCASUS MOUNTAINS, dolerite and granite porphyry dykes, ident. of radiation effects, ages by Fe Mössbauer spectra, 84M/3629; *southwestern*, present chem. weathering, rates, 84M/2492; *Lesser Caucasus*, ophiolites, tectonic position, 84M/2104; *Sadon region*, thermobarogeochem. zonation in polymetallic deposits, 84M/0234
Caves, *USA, Virginia*, commercial, names, locations, 84M/1200
Celadonite, *Poland, Rudno*, secondary in melaphyre, 84M/0975
—, -like minerals, *England, Lake District*, from weathered basalt, correspondence with aluminous glauconite, implications, 84M/1858
Celestine, with Ba, dissolution, thermodynamic and exptl. study, 84M/0363; crystal growth in gels, lab. study, 84M/0385; PO_3^{2-}, SO_3^- radicals, hyperfine structure and dynamics, 84M/1395; *Spain, Granada Basin*, newly discovered deposit, geol., min., 84M/3919; *Libya, Marada*, crystals, new find, 84M/4571; *USA, Indiana, Salem*, large crystals in geodes, 84M/1904; *Virginia, Wise County*, occurrences, resources, 84M/1513
Celsian *v.* feldspar
Cement, noxious components of kiln gas, production consequences, 84M/0317; hardened Portland cement pastes, crystal growth processes in, 84M/0382; carbonate, formation and physical/chemical conditions, exptl., 84M/0383; *Ethiopia*, containing natural pozzolanic material, use, props. of concrete with, 84M/3923
Ceramics, Si-containing, transport of O through SiO_2 surface layers, 84M/0347; Si_3N_4, SiC, phase equilibria, 84M/0379; decade of analysis, review, 84M/2448; plasticity measured by Pfefferkorn and Atterberg methods, 84M/2472; thermal conductivity under He as function of T, P_{He}, 84M/4532; *Poland, Orawa-Nowy Targ basin*, possible use of Neogene clay deposits, 84M/1326; *Greece, Thessaly*, Neolithic, Bronze Age, X-ray, XRD, SEM studies, 84M/2332
—, systems, calculation of complex equilibria, 84M/2634
Cerite, crystal structure, relation to whitlockite, 84M/2508
Cerium, substitution, inclusion in synthetic chlorapatite, 84M/1601; distrib. in ilmenite from various igneous rocks, 84M/1667; quadrivalent, adsorption by kaolinite, 84M/3707; impurities in fluorite, EPR, NAA study, 84M/4081; *Norway, Sæteråsen*, geochem. exploration methods for, 84M/1807; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, CeO_2, thermal expansion data, 84M/4537
—, isotopes meteoritic $^{138}Ce/^{142}Ce$ ratio and its evolution, 84M/4196
Cerolite, *USSR, Kazakstan, Sarykul-Boldy* and *Pstan* Ni-cerolite, colouring phase in chrysoprase and praseopal, 84M/4048
Ceruléite, gemmological props., ident., discovery, 84M/1647; plastic impregnated (stabilized), description, method, difference from untreated, 84M/1649, 84M/1650
Cerussite, crystal chem., 84M/1911; *England, Cornwall, Greystone quarry*, with hemimorphite, aurichalcite, 84M/2294
Ceylon v. Sri Lanka
Chabazite *v.* zeolites
Chalcanthite, grown under microgravity, crystal structure, 84M/3845
Chalcedony, length-fast, crystal structure, growth fabric, 84M/3816; *Poland, Szklary massif*, in serpentinite, occurrence, geol., 84M/4051
Chalcocite *v.* chalcosine
Chalcosine, *England, Knowle borehole*, rims around coffinite in nodules, 84M/0755; *Cornwall, Fal Estuary*, diagenetic in sediments, 84M/2967; *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882; *USA, Arizona, Magma mine*, crystals, 84M/2321; *Michigan, White Pine mine*, 1½″ crystals, description, 84M/2316
Chalcopyrite, use in Indian medicine, 84M/1527; stoichiometry and evolution of terrestrial, oceanic, 84M/2828; *England, Cornwall, Fal Estuary*, diagenetic in sediments, 84M/2967; *Sweden, Falun mine* and *Skellefte dist.*, ores with pyrrhotite, heating expts., stability of intermediate solid soln., 84M/2699; *Belgium, Daverdisse*, in quartzite, quartz veins, 84M/1483; *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Czechoslovakia, Smolník*, tr. element zoning in, comparisons, 84M/0527; *Žiar Mtns.*, occurrence, 84M/0253; *Bulgaria*, Au bearing in 'Elacite' porphyry Cu deposit, 84M/0819; *Medet Mo-Cu deposit*, Co-pyrite, Ni-pyrite, carrollite inclusions in, 84M/0846; *Greece, Macedonia, Koronuda*, inversion twins, min. study, 84M/2595; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882; *Japan, Kii Peninsula*, in granitic rocks, paragenesis, 84M/1891; *Australia, Tasmania, Mt. Lyell*, in fault zones, deformation microfabric development, 84M/4504; *Pacific Ocean, Costa Rica rift*, in basalts, 84M/2186
Chalcotrichite *v.* cuprite
Chalk, *North Sea central graben*, dolomitization in, 84M/1067; *Pacific Ocean, Costa Rica rift*, silicified Upper Miocene, petr., geochem., 84M/2176
Challantite, *Canada, British Columbia, Cache Creek*, in mendozite, second occurrence, 84M/3218
Chambersite, faceted mauve-grey, brief details, 84M/0500
Chameanite, *France, Chaméane*, new mineral, data, 84M/3230
Chamosite, bacterial breakdown, 84M/0361; lamellar sedimentary cement, SEM study, 84M/1057
CHANNEL ISLANDS, *Jersey*, layering in diorites, nature and origin, 84M/2020; *south east*, layering in diorites, nature, origin, discussion and reply, 84M/3349; *St. Ouen's Bay*, Jersey Shale formation, structure, tectonic evolution, 84M/0924; *Sark, Sark's Hope mine*, Ag mineralization, microprobe anals., 84M/0853
Chapmanite, *Japan, Miyazaki Pref., Shishigawa Sb mine*, occurrence, X-ray data, 84M/4599
Charlesite, *USA, New Jersey*, description, 84M/4606; *Franklin*, new ettringite group mineral, data, 84M/3231
Charnockite, *Norway, Hidra massif*, with anorthosite, Pb-isotope study, 84M/2998; *India, Karnataka, Kabbaldurga*, formation, link with granite production, evidence, 84M/2248; *USA, Virginia, Blue Ridge*, age, origin, Nd, Sr-isotope evidence, 84M/3668
Charnockitic rocks, *Angola, Matala region*, petr., 84M/3545
Charoite, gemmological props., ident., discovery, 84M/1647
—, -bearing rocks, rare K-batisite, calciostrontianite in, 84M/0799
Chert, *Italy, Lucania, Lagonegro*, laminations with dolomite in Triassic siliceous limestones, 84M/2209; *Atlantic Ocean, Rio Grande Rise*, from sediments, min., 84M/3464
Chiavennite, *Norway, Oslo region*, in syenite pegmatites, min., data, 84M/0773; *Italy, Chiavenna*, new mineral, 84M/0880
Childrenite, *Germany, Hagendorf*, secondary, X-ray discrimination from eosphorite, 84M/0877
CHILE, nitrate deposits, geol., geog., production, use, 84M/0303; Fe ores, major-, trace-element data, 84M/1680; ophiolite evidence for role of spreading centre magma chambers in formation of Phanerozoic oceanic crust, 84M/2119; *central*, subduction geometry and magma genesis, 84M/3402; *north*, deformation from subduction of Palaeozoic turbidite, 84M/3466; *southern Andes*, Loma Seca tuff and Calabozos caldera, new discovery, 84M/4423; *Antofagasta area*, ultrabasic nodules in crystalline basement gabbroic rocks, petr., 84M/2958; *Aysen, Toqui dist.*, geol., ore deposits, 84M/1481; *Buena Esperanza Cu mine*, geol., geochem., of mine and assoc. gabbro, 84M/2605; *Chuquicamata*, cuprite, Cu, quartz crystals, occurrences, 84M/3607; *Pali-Aike volcanic field*, granulite xenoliths, petr., chem., recrystallization history, 84M/3565; *Puchuldiza* and *Tuja*, hot springs, geochem., 84M/3018; *Sarmiento ophiolite complex*, unusual ocellar textures in dolerite, 84M/4444; *Tocopilla area, Coastal Range*, gabbros in Jurassic volcanic complex, geochem., 84M/2957; *Tortuga ophiolite complex*, petr., 84M/2120
CHINA, stratabound min. deposits, genetic mechanism, controlling factors, characteristics, 84M/0212; linear structures, satellite imagery interpretation, map, 84M/0943; Pb-Zn deposits, types, main characteristics, 84M/1425; Hg mineralization, regional distrib., regularity, main characteristics, 84M/1426; U mineralization in carbonate-siliceous-pelitic rocks, genesis, 84M/1478; uraniferous Ge deposit in Neogene basin, metallogeny, min. characteristics, 84M/1496; ancient meteorite falls, frequence, geog. distrib., 84M/1818; iron

CHINA (*contd.*)
barringerite, first terrestrial occurrence, props., 84M/1871; U deposits in Mesozoic-Cainozoic basins, mineralization conditions, genetic model, 84M/2573; iron meteorites, compn. classification, 84M/3111; chrome spinels from chromite deposits, chem. compn. studies, 84M/3197; ^{235}U abundance in U ore, detn. with Ge(Li) γ-ray spectrometer, 84M/3689; stratabound min. deposits of Kuandian group, 84M/3886; diamond-bearing sediments, characteristics, 84M/3924; stratabound polymetallic deposits, Pb, S isotope studies, 84M/4087; oil-field waters, variation of ϕ (Z/L, x) in relation to Na, Ca, Mg concentrations, 84M/4154; anomalous gas-liquid inclusions in gypsum from Sb deposit, genesis, 84M/4268; yimengite and mongshanite, new minerals in ilmenite from kimberlites, 84M/4292; stibnite, tourmaline, cinnabar crystals, new finds, 84M/4571; *east*, stratabound skarn deposits, 84M/1424; amino acids in mudstones from Meso-Cainozoic sedimentary basins, 84M/1794; zeolitite in Mesozoic volcanic rocks, geol., genesis, 84M/2237; lherzolite nodules from Cainozoic basalts, flow structure, flow stress estimates, 84M/3316; Cretaceous volcanic rocks, isotopic age variations, dating of Cretaceous lower boundary, 84M/3660; *north*, geotemp. distrib., geothermal resources in Meso-Cainozoic basins, 84M/3591; *north east*, perlite deposits, geol. features, genesis, 84M/3925; *south*, minerogenetic series of Mesozoic granites, brief discussion, 84M/1427; metallogenic series of *RE*, rare and non ferrous metal deposits related to Yenshanian granites, 84M/1692; U potential of granitic intrusions, evaluation, application of fuzzy set method, 84M/1693; granite genetic series, Mesozoic examples, 84M/2032; development of fault-block movement, red beds, relation to U mineralization, 84M/2574; *south east*, plate tectonics, relationship between tectonism/magmatism in Jurassic/Cretaceous times, 84M/2031; *114 U deposit*, geol. features, mineralization, 84M/1479; *Anshan*, graphites in Early Precambrian banded Fe formation, origin, 84M/2577; *Chaidamu basin*, *Hang-2 well*, homologous series of aromatics in mature/immature sedimentary rocks, comparison, 84M/1796; *Dading Sn-Fe deposits*, geochem. problems, min., 84M/3123; *Duobaoshan porphyry Cu deposits*, genetic model, 84M/1495; *Gushan Fe deposit*, formation conditions, 84M/1494; *Jiyang Depression*, Tertiary oil-generating strata, geochem., 84M/1795; *Meng'en Ag-Pb-Zn deposit*, galena, characteristics, significance to ore genesis studies, 84M/4261; *Qianxi County*, Archaean granulites, min., *P-T* conditions of crystallization, 84M/1138; *Qionglei*, tektites, chem. compn., prelim. study, 84M/3118; *Xihuashan*, W deposit, metallization linking magmatic deuteric infiltration with hydrothermal lodes, 84M/1691; *middle-lower Yangtze Valley*, Cu-metallogeny, complex model, 84M/3884; *Yenshan region*, Precambrian rocks, Rb/Sr geochron., 84M/3659
—, ANHUI (ANHWEI) PROV., *Fanchang Co.*, *Taochong Fe deposit*, genesis, 84M/3909; *Lujiang-Tancheng fault belt*, Cainozoic volcanic rocks, petr., genesis, 84M/2033; *Nanjing-Wuhu region*, porphyrite Fe-deposits, mineral inclusions, reinvestigation and new data, 84M/1429
—, FUJIAN (FUKIEN) PROV., rare-metal pegmatite ore field, geol., geochem., 84M/1476; Makeng type calcic-skarn Fe deposits, 84M/2576; *Makeng Fe deposit*, submarine hydrothermal-sedimentary mineralization, geol., geochem., 84M/2848; fluid inclusion study, mineralization implications, 84M/4086
—, GANSU (KANSU) PROV., *Baiyinchang pyrite type deposit*, genesis, discussion, 84M/3888; *Jinchuan*, oxidized films on secondary violarite, 84M/3214
—, GUANGXI (KWANGSI), rock crystal deposits, distrib., regularity, ore genesis, 84M/1690; *Ling-shan mine*, mode of occurrence of Cu in Mn-asbolite, application of electrodialysis method, 84M/2427
—, GUANGDONG (KWANGTUNG), *northern*, W ore deposits, types, characteristics, 84M/1471; *Hainan Island* (*Hainan Dao*), Quaternary basalts, lateritization, 84M/0123; *Lianhuashan W deposit*, K/Ar dating, 84M/2350; prelim. isotope studies, 84M/2851; geol., geochem. characteristics, 84M/2851; *Qujiang-Renhua area*, sedimentary facies, chem. variation in Upper Permian strata, 84M/1742; *Quren Co.*, heavy minerals in 2 sets of red beds, study, 84M/3485
—, GUIZHOU (KWEICHOW), *central*, Carboniferous bauxite, indicators of sedimentary facies, environment, anal., 84M/4460
—, HEBEI (HOPEH) PROV., *eastern*, Archaean granulite gneisses, *RE* element geochem., tectonic implications, 84M/4153; *Xuanlong Fe mine*, ore fabric, effect of blue algae on Fe enrichment, 84M/2598; *north Hebei—western Liaoning area*, porphyry Cu-Mo deposits, metallogeny, 84M/3891
—, HENAN (HONAN), *Mianchi Co.*, chondritic meteorite, prelim. study, 84M/3097; *Wucheng*, trona deposit, geol., genesis, prelim. study, 84M/3926; *Wuyang region*, Zaoanzhuang type Fe deposit, genesis, minerogenetic characteristics, 84M/1493
—, HOPEH, *northern Bohai coastal plain*, drill core, palaeomagnetic study, 84M/3483
—, HUBEI (HUPEH) PROV., *Dangyang Co.*, Cretaceous æolian quartz sands, SEM study, 84M/3484; *Basin Q*, Br, Rb, B, Li in Tertiary saline formation, geochem., 84M/1746; Eogene saline minerals, props., geol., 84M/4270; *Xiaojipu*, wollastonite deposits, genetic type, geol. settings, 84M/2607
—, HUNAN PROV., *Xikuangshan Sb deposit*, geol. characteristics, 84M/3890
—, JIANGXI (KIANGSI) PROV., *414 mining dist.*, gibbsite from weathering of Nb-, Ta-bearing albitized granite, discovery, genesis, 84M/1475; *Yangchuling W-Mo deposit*, geol. characteristics, 84M/3911; *south Jinangsu* to *Xizang*, Triassic marine gypsum deposits, 84M/2220
—, JILIN PROV., *Changbai Mtns.*, Cainozoic volcanic rocks, K/Ar dating, 84M/2349; *Changweizi*, wollastonite deposits, genetic types, geol. settings, 84M/2607; *Tonghua region*, Diwa-type granitic rocks and metallogeny, discussion, 84M/3889
—, LIAONING PROV., Yanshanian granite and genesis of assoc. Mo deposits, 84M/1473; *Lianshanguan area*, U mineralization, relation to migmatitic metasomatism, 84M/1477; *western Liaoning—north Hebi area*, porphyry Cu-Mo deposits, metallogeny, 84M/3891
—, NEI MONGGOL ZIZHIQU, *Bayan Obo*, β-fergusonite (Nd), occurrence, props., 84M/0840; *Bayan Obo* and *Shilu*, mineral deposits, possible relationship, 84M/3885; *Baotou area*, hypergenic geochem. of F, 84M/4167; *Hogeqi deposit*, genesis, ore-forming mechanism, discussion, 84M/2850; *Taipushi*, W deposits, change of tenor with depth, cause, implications, 84M/3870; *Xi Ujumqin Co.*, chondritic meteorite, prelim. study, 84M/3097; *v.* also *Mongolia*
—, QINGHAI (TSINGHAI), *north Qilian*, *Xiatieshan deposit*, ore forming processes, reference to physicochem. conditions, 84M/3908
—, SHANDONG (SHANTUNG) PROV., Zihe type strata-bound Fe deposits, lithofacies, mechanism of formation, 84M/2575; *western*, karst limonitic ore deposits, prelim. discussion, 84M/3892; *Lancheng-Lujiang fault belt*, Cainozoic volcanic rocks, petr., genesis, 84M/2033; *Zihe Fe deposit*, min. characteristics of Fe ores, wall rock alteration, 84M/3910
—, SICHUAN (SZECHWAN) PROV., Pt-group elements in sulphide deposit, 84M/3858; *Dukou*, *Baoding coal field*, correlation of coal seams, 84M/4458
—, XINJIANG (SINKIANG), major ore deposits, basic characteristics, minerogenetic conditions, 84M/3887; *Kyokfogoi*, natrobistantite, new mineral, props., 84M/1937; *Tian Shan Mtn.*, *Taomuerfeng*, surface microtextures of quartz sand, 84M/4459
—, XIZANG (TIBET), saline lakes, geol., 84M/1741; *south*, tourmalines from granite, 84M/0776; regionally consistent stretching lineations and plate motions, relationship, 84M/4328; high heat flow, 84M/4550; *Bangong—Nujian suture zone*, *Donqiao ophiolite*, tectonic environment, geodynamic significance, 84M/4431; *Dengquen County*, dyke swarms in ophiolites, ophiolite outcrops, new information, 84M/1050; *Lobusha*, chromite deposits, tectonic environment, 84M/1474; *Rikaze—Bailang zone*, zeolite in pelagic ophiolite sedimentary sequence, 84M/2236; *Xigaze*, diopside-bearing harzburgites from ophiolites, equilibrium state, geodynamic, geobarometric implications, 84M/4015; *Yangbajain geothermal area*, H, O stable isotope compn., tritium content, 84M/4166; *Xuzang*, *Yarlung Zangbo* (*Tsangpo*), high-*P*, low-*T* greenschist facies rocks, new finds, 84M/2269; *Yarlung Zangbo ophiolite belt*, basic geol. features, 84M/2116; *Yarlung Zangbo* (*Tsangpo*) *suture zone*, tectonic evolution, 84M/1051; *Zangbo suture zone*, post-Permian events, 84M/3618; *Xizang to south Jiangsu*, Triassic marine gypsum deposits, 84M/2220
—, YUNNAN PROV., *Geiju*, Sn deposits, mineralization problems, 84M/1472; *Jin-*

CHINA, YUNNAN PROV. (*contd.*)
ning, Sinian microfossils, 84M/4461; *Lunan*, meteorite, compn., 84M/4202; *Tengchong*, origin of Plio-Pleistocene volcanic rocks, isotope and geochem. evidence, 84M/2901
—, ZHEJIANG (CHEKIANG) PROV., *Tonglu*, volcano-intrusive complex, geochem., 84M/4112
Chlorapatite *v.* apatite
Chlorargyrite, *Germany*, *Clara mine*, new find, 84M/4559
Chlorine, future in USA and World economy, (book), 84M/1256; chromatographic detn. in geol. samples, 84M/2425; cycling between mantle and surface reservoirs, effect of oceanic crust alteration, 84M/2792; *south Poland*, in Bochnia evaporites, new Br/Cl ratio detn., 84M/1750; *Japan*, *Tsushima Island*, anomalous contents in Miocene granitoids, 84M/0577
—, isotopes, thermonuclear ^{36}Cl, pulse in natural water, 84M/2624
Chlorite, trioctahedral, cation distrib., sheet thickness, O-OH space, 84M/0174; high-resolution TEM study, 84M/0775; electrostatic interlayer bonding energy and lattice energy, 84M/1303; orientations of OH-bonds, comparison of diffraction methods, electrostatic calculations, 84M/1304; polytypism, OD interpretation, polytype symbolism, 84M/1372; classification, X-ray ident. of trioctahedral polytypes, 84M/1373; differentiation from intergrade smectites, vermiculites by soln. stability criteria, 84M/3731; ident. by optical 2nd harmonic generation technique, 84M/3809; *central Wales*, stacks with mica in low-strain rocks, 84M/3524; *Spain*, *Granada* and *Guadix-Baza basins*, from post-orogenic basins, XRD study, 84M/3164; *Portugal*, *Alijó-Sanfins area*, from phyllites metamorphosed by granites, geochem., 84M/3159; *Japan*, from tuffaceous exhalites assoc. with volcanogenic massive sulphides, compn., oxidation state, 84M/3163; *Nagasaki Pref.*, *Torika*, regularly interstratified with vermiculite in serpentinite, 84M/1855; *Canada*, *Noranda*, from tuffaceous exhalites assoc. with volcanogenic massive sulphides, compn., oxidation state, 84M/3163; *USA*, *south central Maine*, formed from biotite, TEM study, comparison with petr. observations, 84M/3160; *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *North Carolina*, *Murphy*, mixed-layer assoc. with hydrothermal talc deposits, 84M/0298; *Vermont*, *Post Pond series*, intergrown with wonesite, talc, biotite, kaolinite, microstruct., 84M/0172
—, chrome-, *USSR*, *Altai-Sayan region*, from ultramafic rocks, new data, 84M/3165
—, cookeite, X-ray, thermal studies, published data, new conclusions, 84M/0798
—, donbassite, X-ray, thermal studies, published data, new conclusions, 84M/0798
—, pennantite, polytypes, occurrences, props., 84M/1854
—, sudoite, X-ray, thermal studies, published data, new conclusions, 84M/0798
Chloritoid, magnesio-, key mineral for high grade pelitic blueschists, 84M/3130; *Italy*, *Apuane Alps*, anals., probable indicator of pre-Alpine metamorphism, 84M/1833; *Turkey*, *Lycian nappes*, *Ören area*, regional assemblages, min. chem., 84M/3129
CHRISTMAS ISLAND, calcined Ca-Al-phosphate fertilizers, reversion of, 84M/2712
Chromatography, cation exchange, for accurate detn. of Cu in South African reference samples, 84M/0712; laser pyrolysis gas-, applications in organic geochem., 84M/1798; *USSR*, *Kamchatka*, for anal. of thermal fields gas, steam discharges, 84M/1801
Chromdravite *v.* tourmaline
Chromite, pods in ophiolite peridotites, distrib., 84M/0228; spinel, stability, 84M/0407; from ophiolite complexes, Pt-group minerals in, 84M/4424; *Belgium*, *Daverdisse*, detrital in Devonian sediments, anals., 84M/1878; *Greece*, *Chalkidiki complex*, in ultramafic rocks, textural features, chem. characteristics, 84M/3196; *Turkey*, *Elaziğ*, *Guleman deposits*, geol., struct., 84M/0257; *Orhaneli*, in ultramafic massif, anals., 84M/2137; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075; *India*, *Andhra Pradesh*, *Belkuba dist.*, Fe^{2+}/Fe^{3+} distrib. mechanism in, 84M/0831; *Japan*, *Fujiwara mafic/ultramafic complex*, zoned, paragenesis, 84M/0833; *South Africa*, selective flotation, 84M/1419; *Bushveld complex*, from upper chromitite layer, reduction behaviour, mathematical modelling, 84M/1575; *Canada*, *Manitoba*, *Bird River sill*, Pt-group mineral inclusions in, 84M/1872; *USA*, *Alaska*, *Caribou Mtn.* and *lower Kanuti River area*, podiform occurrences, reconnaissance, 84M/0274; beneficiation, 84M/0275; *Montana*, *Red Lodge dist.*, exsolution in metamorphosed, 84M/1879
—, deposits *Scotland*, *Shetland*, *Unst*, 84M/0921; *Greece*, *Chalkidiki*, *Vourinos* and *Tsangli areas*, podiform, primary features, genesis, 84M/2135; *Turkey*, *Bati Kef*, distrib. of Pt-group elements, 84M/3903; *Sultanate of Oman*, deposits in ophiolite, origin, textural and geochem. evidence, 84M/2138; *China*, chem. compn. of chrome spinels from, 84M/3197; *Lobusha*, tectonic environment, 84M/1474; *New Caledonia*, *Tiebaghi*, podiform in ophiolite complexes, genesis, 84M/2136
—, ores, spectrophotometric detn. of total Fe in, 84M/2414; spectrophotometric detn. of Cr in, 84M/2420; *South Africa*, *Marikana*, *MG-1 seam*, beneficiation, 84M/1418
Chromitite, *Cyprus*, *Kokkinorotsos mine*, Pt-group minerals in, 84M/2074; *South Africa*, *Bushveld complex*, origin, implications from chilled margin rocks melting relations, 84M/3982
Chromium, contents of standard rocks, radiochem. NAA study, 84M/0724; future in USA and World economy, (book), 84M/1256; bonds with O, bond length-bond strength relationships at any oxidation state, 84M/1355; extractable amount in settling ponds, prediction, 84M/1516; spectrophotometric detn. in chromite ores, 84M/2420; effect on phase relations in join forsterite-anorthite-diopside in air at 1 atm., 84M/2715; *Mediterranean area*, content in karst-type bauxites, relationship to parent rocks, 84M/1760; *Iraq*, distrib. in rocks, 84M/0605; *south India*, content in quartzites, min., 84M/0769
—, compounds, Cr-oxide in systems, equilibrium relations, 84M/0393; CrO_2, thermal expansion data, 84M/4537; $CaCr^{2+}Si_4O_{10}$, compressibility, high-*P* pleochroism, 84M/4524
—, ions, Cr^{3+}, cause of colour change in diaspore, kyanite, 84M/1646
Chrysoberyl, *Sweden* and *Czechoslovakia*, in metamorphosed pegmatites, formation, 84M/3204; *Austria*, between *Melk* and *Krems*, trillings, 84M/4565; *India*, *Kerala*, *Trivandrum area*, in pegmatites, 84M/2268
—, alexandrite, cat's-eye, description, 84M/0498; natural and synthetic, spectrographic anal., 84M/4044; *Sri Lanka*, cat's-eye gem, description, 84M/4057
Chrysocolla, *Austria*, *Styria*, *Johnsbach*, occurrence, description, 84M/2303; *USA*, *Arizona*, *Glove mine*, occurrence, 84M/4609; *New Water Mtns.*, pseudomorphs after (?) azurite, (?) malachite, 84M/2327; *Ray mine*, massive and large pseudomorphs after unknown mineral, descriptions, 84M/4610
Chrysoprase, *USSR*, *Kazakhstan*, *Sarykul-Boldy* and *Pstan*, colour, spectroscopic and colorimetric studies, 84M/4048; *Poland*, *Szklary massif*, in serpentinite, occurrence, geol., 84M/4051; *Yugoslavia*, *Inner Dinarides ophiolite complex*, in ultramafic rocks, 84M/2139
Chrysotile, high-resolution TEM study, 84M/0775; solid soln. with pecoraite, hydrothermal synthesis, props., 84M/2740; *USSR*, *Vozhminskii massif*, fibrous veins in serpentine, 84M/3221
—, asbestos *v.* asbestos
Cinnabar, use in Indian medicine, 84M/1527; photochem. behaviour in water, 84M/1538; detn. of S-isotopes in, method, 84M/3685; solubility in H_2O from 140°–500°C, 84M/3993; *Germany*, *Clara mine*, occurrence, paragenesis, 84M/4562; *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254; *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *China*, crystals, new find, 84M/4571
Citrate ions, effect on Al-hydroxide precipitation, 84M/1311
Citric acid *v.* acids, citric
Classifications, red-to-violet garnets, 84M/0494; response, 84M/0495; petroleum, based on light hydrocarbons, 84M/0680; nomenclature for minor substitutions in pyroxenes, biotites, 84M/0778; soil, use of palygorskite as diagnostic criterion, 84M/1323; ophiolites, application of non-linear mapping algorithm, 84M/2086; zeolites, crystallochem., 84M/3184, 84M/3185; natural diamonds, 84M/3187; *Poland* and *Czechoslovakia*, *Sudetes Mtns.*, *Izera block*, gneisses and granites, 84M/4322; *Japan*, rivers, by bottom mud heavy metal content, 84M/1537; *Kenya*, soils in peralkaline volcanic ash, 84M/3766; *southern Brazil*, kaolinitic soils, application of goethite, hematite in climosequence, 84M/0146
Clathrasils, proposed structural class of framework silicates, 84M/1381
Clausthalite, *Belgium*, *Daverdisse*, in quartzite, quartz veins, 84M/1483; *USA*, *California*, *Darwin area*, exsolved in galena, 84M/4607

Clay ironstone, *Egypt*, bands/nodules in Dakhla shale formation, genesis, 84M/1088
Clays, Ca-saturated illitic, multilayer sorption and microporosity, 84M/0092; Ca-saturated, internal/external surfaces of montmorillonite, 84M/0093; from soils, water absorption, quantitative evaluation, 84M/0094; sedimentary, separation and characterisation of micaceous constituent, 84M/0103; sedimentary, min. compn., comparison of different methods, 84M/0105; sorption, transformation of phenols on surfaces, 84M/0112; hydraulic equivalence, comparison with mica, 84M/1060; catalytic props. of synthetic and natural, characterization, 84M/1264; swelling in organic solvents, props., uses, 84M/1266; catalysts for ethyl acetate production from acetic acid, 84M/1269; organic syntheses with clay-supported reagents, 84M/1270; mixed layer, ideal mixing of atoms on homological sites, chem., thermodynamic consequences, 84M/1283; catalytic synthesis of humic substances by, 84M/1288; viscosity, viscometer for measurement at high-*P*, 84M/1289; X-ray quantitative anal., simulation method, 84M/1290; mixed-layer, computer calculation of diffraction patterns, 84M/1291; ion-exchange isotherms, 84M/1630; detn. of Fe^{2+} in, 84M/2413; osmotic model of membranes, exptl. support, 84M/2460; complex with silica, chem., 84M/2463; clay-inorganic complexes, prepn., props., 84M/2465; physical mixtures of elementary particles, interstratified characteristics, 84M/2469; at Cretaceous-Tertiary boundary, min., 84M/2478; influence of mineralogy on crystallization of tetravalent Mn layer-lattice minerals, 84M/2484; rapid estimation of Fe-oxides by spectrophotometric anal., 84M/3711; oven drying, pretreatment for surface-area detns., 84M/3712; desorption isotherms of H_2O on, kinetic method for detn., 84M/3714; milligram samples of ultrafine, comparison of rapid methods of chem. anal., 84M/3723; simultaneous multielement anal., use of ICP emission spectroscopy with suspension aspiration, 84M/3724; proportions in mixtures, estimation by X-ray diffraction, computerized chem. mass balance, 84M/3725; exchange behaviour in natural waters, application of extended Gouy-Chapman theory, 84M/3733; interactions with Al, Fe polycations, 84M/3739; in fault zones, 84M/3771; *north east Sweden*, postglacial black, origin of interstitial water compns., 84M/3008; *Poland*, *Machow* and *Mikolajowice*, reactions with molten $(NH_4)_2SO_4$, 84M/3755; *Czechoslovakia*, *Kremnické vrchy Mtns.*, raw materials, min. compn., genesis, 84M/0119; *central Slovakia*, from altered rhyolites, origin, distrib., 84M/0118; *Bulgaria*, *between Ogosta* and *Jantra rivers*, component in Mesozoic sediments, min., genesis, 84M/1330; *Iraq*, *Gaara area*, kaolinitic, min., geochem., origin, 84M/0606; *Egypt*, Phanerozoic mudrocks, marls, major changes in clay mineralogy, 84M/0122; *Canada*, *Alberta*, *Athabasca Tar Sands area*, from surficial deposits, min., O-isotope geochem., 84M/3770; *Quebec*, distrib. in podzolic soils, effects, 84M/1345; structure, Hg intrusion porosimetry and SEM study, 84M/3753; *USA*, *south west Illinois*, beneath coal, origin, evidence from vertical min. and chem. variations, 84M/1334; *south west North Dakota*, content in gas-bearing marine mudstone, use in differentiating producing zones, 84M/1327; *east Texas*, in lignite overburden, min. transformations during weathering, 84M/1335; *Texas*, *Brazoria Cty.*, in geopressured wells, mineralogy, depositional hist., 84M/0129; *Atlantic Ocean*, *Blake-Bahama basin*, post Callovian min., inorganic geochem. stratigraphy, 84M/1338; *North Sea*, interlayered stacks in Jurassic shales, 84M/2480; *Pacific Ocean*, *Galapagos hydrothermal mounds*, green, sedimentology, min., geochem., 84M/2163
—, deposits, *Poland*, *Góry Świętokrzyskie Mtns.*, *Skoki area*, raw materials, min., 84M/3768; *Orawa—Nowy Targ basin*, Neogene, ceramic props., 84M/1326; *Japan Itoigawa*, acid, mixed-layer kaolin-montmorillonite in weathering zone, 84M/1343; *USA*, *Missouri*, high alumina types, physical arrangement, genesis implications, 84M/3762
—, minerals, altered, possible origin for complex amorphous material in Devonian siltstone, 84M/0137; skolite, struct. by simulation method, 84M/0106; discrimination using portable radio-determining radiometer, 84M/0245; organic reactions in clay microenvironments, 84M/1263; interstratified, electron microscope observations, 84M/1275; ident. of expandable layers, solvation methods, 84M/1292; in mixtures, sample prepn., anal., statistical interpretation, 84M/1293; K fixation during hydrothermal treatment, 84M/1296; electrokinetic potential, specific surface, relationship, 84M/1302; Ni-bearing in kerolite-pimelite series, IR studies, 84M/1305; hydrothermal reactions with Sr, simulated transuranic elements, nuclear waste implications, 84M/1542; glass-slide reflection method for IR absorption spectra measurement, 84M/2461; clay minerals and amino acids in relation to origin of life, 84M/2470; transformations in pulverized coal during ignition, 84M/2671; electron microprobe anal., 84M/3713; Zn adsorption, influence of Fe-oxide coatings, 84M/3743; sorption of U on, 84M/3744; 2:1, ^{29}Si and ^{27}Al NMR spectroscopy, 84M/3752; alteration in hydrothermal brines, 84M/3932; *south east Poland*, in loesses, 84M/1322; *Poland*, *Carpathian Mtns.*, in weathering crust of sandstone tors, 84M/4451; *Carpathian Foredeep*, mixed-layer illite-smectite in low-*T* diagenesis, data from Miocene deposits, 84M/3759; *Wales*, *south* and *borders*, assemblages in Townsend tuff, 84M/0115; *France*, *Brittany*, *Vendée* and *southern Massif Central*, in hydrothermal U deposits, 84M/2488; *Rhône*, *Sibert*, from hydrothermal alteration of Cu-Mo-bearing porphyry, 84M/2490; *Italy*, in Andosols, origin, 84M/0139; *Bologna*, *Lizzano in Belvedere*, 14Å min. in podzolic soils, characteristics, 84M/0135; *Czechoslovakia*, *Slovakia*, in central neovolcanic region rock wastes, soils, 84M/0134; *India*, *Assam*, *Barail* and *Tipam*, in reservoir sands, 84M/3764; *Kerala*, distrib. on continental shelf and slope, 84M/1333; *Japan*, *Shinzan hydrothermal area*, conversion series of dioctahedral mica/smectites, 84M/3761; *Ehime Pref.*, *Tobe*, micas, X-ray basal reflections, 84M/1279; *Hiroshima Pref.*, *Nukui*, in clay veins in granitic rocks, formation process, 84M/2487; *Hiroshima* and *San'in granitic complexes*, micaceous, modes of occurrence, min., 84M/1340; *Malaysia*, *Sarawak*, suites and parent rocks, relationships in 8 profiles, 84M/0143; *USA*, *Appalachian Basin*, in Devonian shales, 84M/3769; *Oregon*, *Lake Albert*, in alkaline, saline lake, 84M/1331; *Atlantic Ocean*, *Rio Grande Rise* and *southern Brazil Basin*, stratigraphy, 84M/2485; *East China Sea*, organoclay complexes and metallic element enrichment, relationship, 84M/4177; *Indian Ocean*, *Somali* and *Mozambique Basins*, diagenesis, 84M/3772; *Pacific Ocean*, *northern Cascadia Basin—Juan de Fuca abyssal plain*, strat., control by selective transport, 84M/0128; *East Pacific Rise*, authigenic-diagenetic, 84M/2493; *Galapagos hydrothermal mounds field*, origin, chem. and isotopic investigations, 84M/0132
—, mounts, preparation, jig for rapid and precise smear method, 84M/0091
—, resources, *USA*, *Virginia*, 84M/1511
Claystone, *north-northeast Iraq*, min., geochem. differentiation in, 84M/0607; *Atlantic Ocean*, *Blake-Bahama Basin*, Lower Carboniferous carbonaceous, geochem., min., 84M/1337
Cleavelandite *v.* feldspar
Cliffordite, non-stoichiometric hydrothermally synthesized, structure, 84M/3828
Clinohumite, *Japan*, *Ehime Pref.*, *Irazuyama*, occurrence, X-ray data, 84M/4580
Clinokurchatovite, *USSR*, *Solongo deposit*, new structural modification of kurchatovite, data, 84M/3232
Clinoptilolite *v.* zeolites
Clinopyroxenites, from eclogite-schist complexes, 84M/3512; *v.* also pyroxenites
Clinozoisite, Fe-free, stability relative to zoisite, 84M/2726
Coal, brown, bulk/surface characterization, potential of ESCA techniques, 84M/0684; anal. by XRF using artificial standards, 84M/2405; detn. of tr. elements in by AAS, 84M/2428; pulverized, clay and pyrite transformations during ignition, 84M/2671; D/H ratios, palaeolatitude of deposition, 84M/2974; mol. wt. of extracts, implications for coalification process, 84M/4180; *Scotland*, deposits, 84M/0921; *Indonesia*, *Kalimantan*, *Mahakam Delta*, biol. marker study, 84M/3056; *Australia*, bituminous, structural investigation, variation in rank, 84M/3057; kerogen, humic acid content, evaluation of Rock-Eval pyrolysis, 84M/4179; *New Zealand*, formation and chem. origin, use of $^{18}O/^{16}O$ ratios, 84M/3058; *Canada*, *Nova Scotia*, *Sydney* and *Picton coalfields*, rank changes, 84M/4553; *USA*, *Florida*, *Everglades*, origin of pyrite in, 84M/2983

Coal (*contd.*)
—, fields, *China*, *Sichuan Prov.*, *Baoding*, correlation of coal seams, 84M/4458
—, mines, *USA*, *Pennsylvania*, surface reclamation, ecosystem development, natural succession, 84M/2622
Coalingite, *Japan*, *Kumamoto Pref.*, *Mashiki town*, mixed with brugnatellite, pyroaurite, occurrence, X-ray data, 84M/4590
Cobalt, surface chem. in calcined Co-kaolinite minerals, 84M/1315; extractable amount in settling ponds, prediction, 84M/1516; detn. in EDTA soil extracts by AAS, 84M/2432; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; *Belgium*, content in Fe-sulphides, 84M/1897; *Western Australia*, *Eastern Goldfields area*, accumulation in *Hybanthus floribundus*, 84M/2620; *Zambia*, *Copperbelt*, role in ore mineral formation, 84M/1466; *central Pacific Ocean*, fluxes, relation to ferromanganese nodule growth, 84M/2563
—, compounds, CoAs, room- and high-*P* chem., 84M/3842; CoO, thermopower in, measurement, interpretation, 84M/1157; CoO, thermal expansion data, 84M/4536; $Co_{1-x}O$, stability range, electrical conductivity, 84M/0418; $CoSiO_3$ gels, dissolution with organic agents, 84M/0690; α-Co_2SiO_4, crystal structure, electron distrib., 84M/1362; CoS_2, Co_3S_4, electronic structures, 84M/1391
—, deposits, *Zambia*, *Copperbelt*, geotectonic environment, 84M/2569
—, glass, lapis lazuli imitation, 84M/4058
—, ions, Co^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797; Co(II), oxidation on synthetic birnessite, mechanism, 84M/2688
—, isotopes, ^{60}Co, concentration of cosmogenic in Isna meteorite, 84M/1816
—, mineralization, *Australia*, *Queensland*, *Mount Cobalt*, geol., suggested genesis, 84M/2600
—, ores, *Iran*, *Talmessi* and *Meskani*, with Cu, Ni, U, geol., min., 84M/3882
Cobaltite, *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254; *Greece*, *Macedonia*, *Koronuda*, in ore deposit, 84M/2595; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075; *Japan*, *Aichi Pref.*, *Kira-cho*, in Mn-ore, anal., X-ray data, 84M/4575
Cobaltkoritnigite, *Germany*, *Ganggebiet*, new discovery, 84M/2299
Coesite, *USSR*, *Ternovka astrobleme*, occurrence, 84M/4208
Coffinite, so called P-bearing, true nature, 84M/4212; *England*, *West Midlands*, *Knowle borehole*, in Mercia Mudstone group nodules, 84M/0755; *Canada*, *Saskatchewan*, *McClean deposits*, ore mineral, geol., 84M/3898
Collophane *v.* apatite
COLOMBIA, Cretaceous to Recent volcanism, petr., geochem., magmatic history of accretionary plate margin, 84M/4134; *central Cordillera*, Palaeozoic paired metamorphic belt, 84M/4521; high-*P* metamorphic rocks, 84M/4522; *Bogota*, oil treatment of emeralds, 84M/4046; *Gorgona Island*, Pb isotope variations, correlations with magma type, 84M/4133; *Los Manantiales 1 well*, spilites below Cretaceous strata, implications for spread of Caribbean Sea, 84M/1019; *Mocoa*, Mo-rich porphyry Cu deposit, geol. exploration, 84M/3917; *Muzo* and *Chivor*, emerald deposits, descriptions, mining techniques, min., 84M/4047
Columbite, *India*, *Andhra Pradesh*, *Kanigiri area*, in granitic rocks, 84M/0575; *Nigeria*, *Amo Younger Granite complex*, mineralization, geochem., 84M/1726
Colusite, *Italy*, Carrara, *Lorano quarry*, crystals in marble, new occurrence, chem., 84M/0857; *Tuscany*, *Alpi Apuane area*, new find, 84M/4566
Comancheite, *USA*, *Texas*, *Mariposa mine*, new Hg mineral, 84M/0882
Comendite, *Mongolia*, Late Palaeozoic systems with basalt, 84M/0995; *Mongolia*, *South Gobi belt*, crystallization, melt inclusion study, 84M/4376; *Ascension Island*, petr., 84M/2060
Comets, bombardment of Earth by, 84M/0753
Computers, for assessment of thermodynamic data, 84M/0337; use of interactive graphics for crystal habit, morphology studies, 84M/1229
—, analysis, for inverse problems in physical chemistry, 84M/2635
—, files, *USA*, *Utah*, USGS 'CRIB' file for metal/non-metal resource information, 84M/0276
—, programmes, for drawing crystals, twins, 84M/0057; changes in for calculation of mixed-layer clay diffraction patterns, 84M/1291; POWDER PATTERN for processing, interpreting powder diffraction data, 84M/2376; NBS QUANT82, for XRD quantitative anal., 84M/2387; SCRIP, Fortran IV software for quantitative XRD anal., 84M/2388; time share capability for XRD phase ident., 84M/2394; for automated qualitative XRF anal., 84M/2395; fundamental parameters program for broadband energy dispersive XRF anal. without standards, 84M/2397; XRF II and EXACT fundamental parameters programs for XRF anal., comparison, 84M/2398; for data capture in multielement anal. by sequential X-ray spectrometer, 84M/2406; for gemstone ident., 84M/4060
Concrete, new machining method, 84M/1238; *Iraq*, alkali reactivity of sand, gravel, carbonate resources, 84M/0302; *Argentina*, *Garrapta quarry*, suitability of nepheline-leucite basanite for, 84M/1018
Concretions, probable mechanism of development, 84M/0364; Fe-Mn, formation on sea floor, electro-geochem. model, 84M/2669; *South Australia*, *Maslin Beach*, ferruginous, lined with hematite, 84M/3487; *Indian* and *Pacific Oceans*, Fe-Mn, asbolan and mixed-layer asbolan-buserite in, 84M/1885; *v.* also nodules
Conglomerate, *Sweden*, *Artfjället*, deformed, factors influencing rock competence, 84M/2256; *Spain*, *Fortune basin*, shallow marine/continental from coral reef complexes, 84M/1075; *Czechoslovakia*, *Klippen belt*, eclogitic pebbles in Cretaceous, 84M/1129; *India*, *Middle Andaman* [*Islands*], geol. significance, 84M/4457; *Rajasthan*, *Barr*, recognition, stratigraphical significance, 84M/2218; *Gabon*, *Congo*, *Zaïre*, *Angola*, basal in West Congolan geosyncline, glacial origin, 84M/4455; *South Africa*, *Kaapvaal craton*, Archaean pyritic, recent U mobilization in, 84M/2783; *Witwatersrand*, U and Au-bearing Precambrian quartz-pebble, genesis, 84M/0261; derivation of Au in, alternative model, 84M/2570; *Canada*, *Ontario*, *Elliot Lake*, uraninite-bearing, possible use in detn. of early Proterozoic atmosphere O content, 84M/2774; *Antarctica*, *Alexander Island*, sedimentary dykes of, 84M/1101
CONGO, basal conglomerate in West Congolan geosyncline, glacial origin, 84M/4455
Connellite, *Germany*, *Clara mine*, new find, 84M/4559; *Japan*, *Kagoshima Pref.*, *Futago Island*, occurrence, X-ray, genetic studies, 84M/4588
Continental drift *v.* plate tectonics
Continents, chem. structure, evolution, detn. by inversion of Nd, Sr isotope data, theoretical methods, 84M/2796; numerical expts., discussion, 84M/2797
Conichalcite, *Germany*, *Clara mine*, new find, 84M/4559
Copiapite, *Poland*, *Lower Silesia*, *Turoszów*, occurrence, props., 84M/1907; *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568
Copper, adsorption in soil, effect of pH, 84M/0314; future in USA and World economy, (book), 84M/1256; extraction from soil organic matter, use of NaOCl, 84M/1284; extractable amount in settling ponds, prediction, 84M/1516; detn. in EDTA soil extracts by AAS, 84M/2432; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; native, physicochem. formation conditions in igneous magmas, 84M/4093; *England*, in urban dusts, soils, nationwide survey, 84M/1517; *Wales*, *Dolfrwynog bog*, geobotanically anomalous Cu bog, multitemporal remote sensing, 84M/0670; *Belgium*, *River Meuse*, and *France*, *River Garonne* and *Gironde Estuary*, adsorption on hydrous oxides, application of model, 84M/2632; *Madeira*, detn. in volcanic rocks, 84M/2880; *Romania*, *Baia Mare dist.*, frequency distrib. in polymetallic deposits, 84M/0541; *Iraq*, distrib. in rocks, 84M/0605; *United Arab Emirates*, *Madhab*, *Murbah* and *Wadi Hăm*, ground geophys. prospecting for, note, 84M/3041; *Egypt*, *Hamash area*, geochem. prospecting for, 84M/3039; *China*, *Guangxi Prov.*, *Ling-shan mine*, mode of occurrence in Mn-asbolite, application of electrodialysis method, 84M/2427; *Japan*, content in river bottom mud, 84M/1537; *Western Australia*, *Eastern Goldfields area*, accumulation in *Hybanthus floribundus*, 84M/2620; *New Zealand*, *Taieri Estuary*, mixing, relation to colloid stability, surface props., 84M/0659; *South Africa*, in primary/secondary reference samples, accurate detn. by cation exchange chromatography, AAS, 84M/0712; *USA*, *Arizona*, *Magma mine*, crystals, 84M/2321; *Ray mine*, elongated, twisted, spinel-twins, description, 84M/4610; *Chile*, *Chuquicamata*, occurrence, description, 84M/3607; *Atlantic*, *Caribbean* and *Pacific Oceans*, distrib., 84M/0646

Copper (*contd.*)
—, -bearing rocks, *South Africa*, *Namaqualand*, basic, petr., 84M/1994
—, compounds, metastable Cu_4O, structure, EM study, 84M/3831; $CuSiO_3$ gel, dissolution with organic agents, 84M/0690; in system Cu_2S-Bi_2S_3, cryst. struct., 84M/0191; Cu_9BiS_6, detn. of Bravais class, 84M/1350; CuS, CuS_2, Cu_2S, $CuFeS_2$, $CuCo_2S_4$, electronic structures, 84M/1391; sulphides, Cu*L* X-ray emission spectra, wavelength shift, 84M/3843
—, deposits, stratiform, interactions with coexisting atmospheres, hydrospheres, biospheres, lithospheres, 84M/2853; *Greenland*, *Karramiut Island*, ore minerals, microstructures, descriptions, 84M/0279; *Scotland*, *Tayside*, *Tomnadashan*, sulphide min., 84M/1483; *Poland*, Cu-bearing glauconite from, 84M/4237; *Lubin area*, precious metal bearing shale from Zechstein deposits, 84M/0256; *Switzerland*, *Graubünden*, *Affeier*, occurrences in Permocarboniferous strata, min., anals., 84M/0250; *Austria*, *Waschgang*, with native Au, ore mineralogy, 84M/3902; *Spain*, *Santiago de Compostela*, *Arinteiro-Bama*, genesis, metamorphism, 84M/3901; *Portugal*, *Neves Corvo*, exhalative, geol. setting, 84M/2565; *Czechoslovakia*, *Hodruša-Deep*, Pb-Zn-Cu ore, processing, application of flotation, 84M/0280; *Bulgaria*, *Malko Târnovo intrusive*, deposit localization, importance of intrusive structure to, 84M/1489; *China*, *middle-lower Yangtze Valley*, metallogeny, complex model, 84M/3884; *Australia*, *Queensland*, *Gilberton area*, lodes in metadolerites, 84M/2579; *Mount Turner*, geol. environment, 84M/2601; *South Australia*, *Mount Gunson area*, genesis, geochem. constraints, 84M/0544; *Western Australia*, *Golden Grove deposit*, effects of metasomatism, development of quartz 'eyes' in intrusive/extrusive rocks, 84M/1498; geol., 84M/1499; *Zambia*, *Copperbelt*, geotectonic environment, 84M/2569; *Canada*, *Redstone* and *Zaïre*, *Kamoto*, diagenetic stratiform, prelim. comparison, 84M/2580; *Ontario*, *Maybrun mine*, with quench-textured pillowed metabasalts, 84M/3915; *Quebec*, *New Insco deposit*, geol., 84M/1503; *USA*, *Minnesota*, *Dunka Road deposit*, petr., chem., 84M/1507; *Montana* and *Idaho*, sandstone (Revett) type, genesis, 84M/1480
—, —, porphyry, ore-igneous rock systems, vertical range, 84M/1420; lowered ore-forming metal-content field surrounding, prelim. study, 84M/3872; *USSR*, *Kazakhstan*, *Aktogai*, regional position, geol., 84M/0286; *France*, *Rhône*, *Sibert*, argillic hydrothermal alteration, 84M/2490; *Czechoslovakia*, *eastern Slovakia*, prognostic areas in Neogene volcanic rocks, 84M/0255; *Zlatno*, geol., 84M/0282; *Bulgaria*, Au bearing pyrite, chalcopyrite in 'Elacite' deposit, 84M/0819; *China*, *Duobaoshan*, genetic model, 84M/1495; *north Hebei—western Liaoning area*, metallogeny, 84M/3891; *Australia*, *Queensland*, *Mount Vista*, geol., min., 84M/2602; *Papua New Guinea*, *Panguna* and *Frieda deposits*, S-isotope data, nature of hydrothermal systems, 84M/0543; *Canada*, *British Columbia*, Cu-Mo deposits, metallogeny, tectonics, 84M/0215; *Quebec*, *Mines Gaspé*, ore-forming fluids in carbonate-hosted, compn., origin, fluid inclusion study, 84M/0545; *USA*, *Arizona*, *Helvetia*, *Safford* and *Silver Bell*, remote sensing for, 84M/0277; *Mexico*, geochron., 84M/0219; *Colombia*, *Mocoa*, Mo-rich, geol. exploration, 84M/3917; *Peru*, *La Granja*, geochem., 84M/1700; *Quellaveco*, assoc. with granodiorite, K/Ar ages, 84M/1227
—, —, skarn, lowered ore-forming metal-content field surrounding, prelim. study, 84M/3872
—, ions, Cu^{2+}, adsorption by Na-montmorillonite at low surface coverage, 84M/1285; Cu^{2+}, hydration state in Cu^{2+}-hexadecylpyridinium montmorillonite, ESR study, 84M/1314; Cu^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797; interaction with microcrystalline gibbsite, oriented chemisorbed Cu ions, evidence, 84M/3742
—, minerals, *Switzerland*, *Alps*, secondary, 84M/1178; *Australia*, *NSW*, *Blayney*, *Brown's Creek*, in skarn, 84M/3912; *Pacific Ocean*, *Mid Pacific Mtns.* and *Hess Rise*, volcanogenic, 84M/3895
—, ores, *Iran*, *Talmessi* and *Meskani*, with Ni, Co, U, geol., min., 84M/3882
—, -nickel ores, large-scale quantitative forecasting of, 84M/0236; geol. features, classification, 84M/0233
Corals, *Spain*, *Fortune basin*, fragments in shallow marine/continental conglomerates, 84M/1075; *Japan*, *Ryukyu Islands*, from marine terraces, ESR ages, comparison with ^{14}C, Th/U ages, 84M/1214
Cordierite, anhydrous Mg-, enthalpy effects assoc. with Al/Si ordering, 84M/0452; high-resolution TEM study, 84M/0775; thermodynamics of melting, glass transitions, props. of amorphous phases, 84M/4010; Fe-bearing, heating, radiation effects on optical, Mössbauer spectra, 84M/4011; *Finland*, occurrences, 84M/4055; *Switzerland*, *Lepontine Alps*, substitutions in, gas content, cell parameters, optics, 84M/0774; *Italy*, *Como*, *Dervio-Colico road tunnel*, hydrocarbon-bearing, 84M/3135; *Czechoslovakia*, *Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253
—, -bearing rocks, *India*, *Kerala*, *Quilon dist.*, gneiss, structure, metamorphic characteristics, 84M/4497
Cornetite, *Zaïre*, *Shaba*, *Star of the Congo mine*, new find, 84M/4570
Corrensite-like minerals, *Italy*, *Taro* and *Ceno Valleys*, props., 84M/2477
Corundum, crystals grown from cryolite flux, surface micro-topography, 84M/0401; orange Chatham synthetic, props., 84M/1634; solubility in supercritical water, 84M/2683; oriented intergrowth with rutile, exptl. study, 84M/2684; solubility, crystal growth in PbO-B_2O_3 flux, 84M/3951; synthetic, induced fingerprints in, 84M/4043; Verneuil grown, effect of γ-radiation on mechanical props., 84M/4531; thermal conductivity under He as function of T, P_{He}, 84M/4532; *Finland*, *Lapland*, poor quality, occurrences, 84M/4055; *Germany*, *Eifel*, *Wehr volcano*, from contact metamorphic xenolith, fluid inclusion study, 84M/3192; *Bulgaria*, *Markova Trapeza deposit*, in pegmatite, 84M/0777
—, ruby, new Kashan and Knischka types, recognition, 84M/0484; ruby-synthetic ruby gemstone, description, 84M/0498; Kashan synthetic, observations, 84M/2760; Ramaura synthetic, props., 84M/4041, 84M/4042; natural and synthetic, spectrographic anal., 84M/4044; *Burma*, *Mogok*, review, 84M/4040; *Japan*, *Ehime Pref.*, *Sanbagawa belt*, props., anal., 84M/4250
—, sapphire, naturally coloured, treated yellow/orange-brown, description, 84M/0487; padparadscha, history, modern usage, GIA interpretation, 84M/0488; new synthetic Chatham, Verneuil types, ident., 84M/1633; cabochon containing unusual voids, 84M/2761; natural and synthetic, spectrographic anal., 84M/4044; Chatham synthetic blue and orange, props., ident., 84M/4045; yellow heat treated gem, description, 84M/4056; *Pakistan*, *Kashmir*, history of deposits, production, 84M/0485; *Malawi*, *Chimwadzulu*, showing 'silk', new source, 84M/0486
—, -hematite, class of pigments for vitreous enamel industry, 84M/2608
Cosalite, *Austria*, *Hollerbachtal*, *Bärenbad*, now ident. as eclarite, 84M/3878; *Salzburg*, *Felbertal*, thin layers in quartz, EM, X-ray study, 84M/3878
COSTA RICA, *Aguacate formation*, volcanic rocks, geochem., 84M/2953; *Arenal volcano*, intra-crater activity, aa-block lava, viscosity, flow dynamics, 84M/4422
Coticules *v.* quartzites and spessartine
Cotunnite, *India*, *Kolar*, new locality, anal., 84M/3883
Covellite, diffusion during synthesis, 84M/1594; *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485; *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254
'C-Ox' *v.* diamond simulants
Crandallite, rehydroxylation in calcined Ca-Al-phosphate fertilisers, cause of reversion, 84M/2712
—, -group minerals, *Poland*, *Lublin Coal Basin*, in tonsteins, anal., 84M/3223
Cretaceous rocks, *England*, Chalk, natural radioactivity, 84M/2966; *central eastern England*, bentonites in Chalk, relation to opening of NE Atlantic, 84M/3763; *Dorset*, *Isle of Purbeck*, natural deformation in Chalk, example, 84M/4449; *Lincolnshire* and *South Humberside*, Chalk lithostratigraphical studies, use of resistivity, γ-logging, 84M/4546; *Scotland*, stratigraphy, petrography, tectonics, volcanism, 84M/0918; *Poland*, *Mielnik*, phosphorite nodules from, genesis aspects, 84M/3922; *Spain*, *Biscay* and *Guipuzcoa prov.*, interbedded volcanic, sedimentary, fossil dating, 84M/3645; *Czechoslovakia*, *Klippen belt*, eclogitic pebbles in conglomerate, 84M/1129; *Pieniny Klippen belt*, lawsonite in rock pebbles, 84M/0772; *central north Bulgaria*, volcaniclastic component in sedimentary rocks, 84M/2055; *Turkey*, *Pontic chain*, volcanic rocks, geochem., 84M/0977; *Cyprus*, umber, ochre deposits,

Cretaceous rocks (*contd.*)
anals., comparison with Pacific pelagic clay, 84M/2078; *Israel, Ghareb formation*, bitumens, pyrolyzates in bituminous chalks, biol. markers in, 84M/4175; *Japan*, Izumi group, sulphate minerals in, 84M/4573; *Nohi*, rhyolite mass, volcanic activity of basaltic andesite in, 84M/4387; *Rhyohaku Mtns., Okumino complex*, igneous activity in acid igneous complex, 84M/4389; *east China*, volcanics, isotopic age variations, dating of Cretaceous lower boundary, 84M/3660; *south east China*, magmatic, relationship with tectonism, plate tectonics, 84M/2031; *Hubei Prov., Dangyang Co.*, æolian quartz sands, SEM study, 84M/3484; *Nigeria, Akukwa-2 well*, shales, petroleum geochem., 84M/1793; *southern Africa*, kimberlites, sources, Pb, Sr, Nd-isotope evidence, 84M/2890; *USA, Colorado, Denver area*, kaolinitic altered tuffs, goyazite content, 84M/4282; *southern South America*, magmatic intervals, transgression-regression cycles, oceanic events, 84M/4347; *Antarctica, Alexander Island*, sedimentary dykes, pipes, structures in, 84M/1101; *South Shetland Islands, King George Island*, calc-alkaline, K/Ar age, 84M/2356; *Atlantic Ocean, Walvis Ridge*, volcaniclastic, anal., 84M/4433
—, -Tertiary boundary, clay mineralogy at, 84M/2478; thermal neutrons as possible cause of biological extractions, 84M/2802; isotopic study of sediments, evidence for asteroidal impact, 84M/3115; *Spain, Italy, Central Pacific Ocean*, spherules at, result of extraterrestrial impact, 84M/1819; *USA, New Mexico* and *Colorado, Raton basin*, tr. element patterns at non-marine boundary with Tertiary, 84M/4207
CRETE, *Talea Ori*, structure, regional significance, 84M/1952
Crichtonite series, *South Africa, Jagersfontein*, new members from kimberlite, min. chem., implications for upper mantle metasomatism, 84M/2821
Cristobalite, structure, effect of *T*, *P* on, 84M/1346; formation from quartz, effect of isomorphous substitutions, 84M/1626; *Poland, Carpathian Mtns.*, in weathering crust of sandstone tors, 84M/4451; *Spain, Tagus basin*, α-, new texture for in siliceous rocks, 84M/3474; *Mexico, Querétaro*, possible inclusions in opal, 84M/0489
Crocidolite *v.* amphiboles, crocidolite
—, asbestos *v.* asbestos
Cronstedtite, *Czechoslovakia, Příbram*, $2H_2$ polymorph, crystal structure, 84M/1374
Cryptohalite, *Germany, Clara mine*, new find, 84M/4559
Cryptomelane, oxidation of arsenite by, kinetics, 84M/1533; possible cause of 7Å X-ray reflection in Mn-nodules, 84M/3207
Cryptoperthite *v.* feldspar
Crystal chemistry, 2*H*- and 3*R* MoS_2, thermal vibration, anisotropic mean-square displacements in single crystals, 84M/0193; Pb-chalcogenides, charge distrib., atomic thermal vibration, 84M/0195; sulphates of trivalent elements, detn. of struct. type, stability field from chem. formula, 84M/0199; Ca-Mg and Ca-Mn-borates, 84M/0204; OH-bond orientations in layer silicates, comparison of diffraction methods, electrostatic calculations, 84M/1304; organic anion adsorption on Al-hydroxides, bonding mechanisms, 84M/1310; O bonds of Ti, V, Cr, Mn, Fe, bond length–bond strength relationships, 84M/1355; anhydrous intermediate sulphates of trivalent elements, 84M/1397; compounds in system Li_2O-Fe_2O_3-TiO_2, 84M/1580; rhombohedral carbonates, 84M/1908; orthorhombic carbonates, 84M/1911; rock-forming silicates, high-resolution ^{29}Si n.m.r. spectroscopic studies, 84M/2495; borate polyhedra, distortions and polymerization, quantum mechanical studies, 84M/2499; X–OH, O–H–O bond lengths in protonated oxoanions, 84M/3787; amphibole asbestos, cation site population, 84M/2518; anhydrite, celestine, baryte, EPR study of PO_3^{2-} and SO_3^- radicals in, 84M/1395; natural barrerite and phases B, D, OH presence, IR study, 84M/0181; bixbyite A_2O_3 structure type, 84M/3830; natural chabazite, vibrational spectra, 84M/1384; trioctahedral chlorites, cation distrib., sheet thickness, O–OH space, 84M/0174; natural chrysotile asbestos, IR spectroscopic study, 84M/2521; dickite, nature of interlayer bonding in, 84M/0176; dolomite, electron density distribution, 84M/2543; high-*T*, of K and Na fluor-richterite, comparison with tremolite, 84M/2519; natural garnets, Mössbauer spectra, 84M/2505; $M_3^{2+}Al_2Si_3O_{12}$ garnets, Si–O bond lengths, role of empty 3d orbitals in M^{2+} cations, 84M/2506; $(Fe_{1-z}Me_z)_3(PO_4)_2$ graftonite-type solid solns., cation distrib., Mössbauer study, 84M/0202; hydrosodalite, structure and motion of H_2O, OH groups, 84M/1380; two Si environments in kaolinite, solid state ^{29}Si n.m.r. study, 84M/2522; nolanite, 84M/1389; olivine, cation site preference, relation to (130) spacing, chem. compn., 84M/3119; $GdFeO_3$-type perovskites, 84M/2538; SiO_6^{8-} octahedral group in silicate perovskite, prelim. Fourier-transform IR data, 84M/3821; petalite, 84M/3182; Fe distrib. in pumice and derived zeolites, 84M/2533; pyroxenoids, structural chem., comment, 84M/2517; scapolite, ordering and compn., 84M/1863; silica polymorphs, n.m.r. study, 84M/2530; interactions of cations in octahedral, tetrahedral sites in simple spinels, comment, 84M/3824; reply, 84M/3825; $MgAl_2O_4$ spinel, anharmonic thermal vibrations of atoms in up to 1933°K, 84M/3826; tirodite-dannemorite series, detn. of cation distrib., IR, Mössbauer studies, 84M/1368; various positions of B in tourmaline lattices, 84M/2513; CoAs, FeAs, room- and high-*P* chem., 84M/3842; *USSR, Bezymyanny volcano* and *El Salvador Izalco volcano*, shcherbinaite, 84M/3202; *Finland, Lapland*, aluminous orthopyroxenes, 84M/2516; *Germany, Auerbach* and *Czechoslovakia, Trebnitz*, hessonite and pyrope, cation distrib., 84M/1827; *Czechoslovakia, Ždár u Staré Paky*, natural mordenite, vibrational spectra, 84M/1383; *Hungary, Nadap*, heulandite, dehydration, structural study, 84M/2531; *Iran, north-east Azerbaijan*, cation site location in K-, Ag-exchanged natural chabazite, 84M/1385; *Madagascar*, Al-Si ordering in orthoclase, quantitative analytical TEM study, 84M/2523
—, colour, rose coloration in natural quartz, cause, 84M/1377
—, defects, characterization by light scattering tomography, 84M/1235; stacking faults in tetrahedral compounds, EM imaging, 84M/1358; effects on induced thermoluminescence of phyllosilicates, 84M/2462; trigonal-prismatic structures and defect variants, general scheme, 84M/3841; synthetic amphiboles on join $Mn_2^{2+}Mg_{7-x}(Si_8O_{22})(OH)_2$, 84M/1617; arsenopyrite, dislocation distrib., morphology, 84M/3569; in sedimentary calcites, dolomites, TEM studies, 84M/0870; in non-stoichiometric sedimentary calcite, dolomite, 84M/1398; chain periodicity faults in clinopyroxenes, 84M/3804; fibrous cuprite (chalcotrichite), TEM study, 84M/1577; diamond, naturally occurring vacancy related colour centres, 84M/0182; Ge crystals grown at zero gravity, outstripping of dislocations by growth front, 84M/3962; in dehydrated kaolinite, nontronite, 84M/3736; olivine, dislocations from scratches, TEM study, 84M/2714; structural, in palygorskite, 84M/3813; plate-like in synthetic quartz crystal, 84M/0474; trapped-hole centre in natural quartz, cause of rose coloration, 84M/1377; natural quartz, new hole centres, 84M/2529; natural quartz of different genesis TEM, X-ray, EPR study, 84M/3814; paramagnetic in crystalline quartz, application of electron spin spectroscopy to, 84M/3815; sillimanite, dissociation of *c* dislocations, 84M/0767; sphalerite, TEM study, 84M/1390; synthetic $MgAl_2O_4$-spinel, shock-induced, 84M/1578; synthetic Fe_7S_8, planar faults in, 84M/0197; synthetic $Ni_{17}S_{18}$, planar faults, 84M/0196; dislocations, stacking faults, twins, polytype lamellae in ZnS, revealing by etching, 84M/0423; *Italy, Monte Alpe*, sursassite, stacking disorder, 84M/3795; *Brazil, Minas Gerais*, etch pits in beryl, relation to structure, 84M/0160
—, deformation, *Simla Himalayas*, patterns in garnets, 84M/3124
—, growth, search for master equation for, 84M/0332; magnetite scales on Fe, dil. Fe-Si alloys, dominant growth control, 84M/0348; mixed crystal from ideal dil. soln., 84M/0372; growth parameters from observed step patterns, methods for quantitative estimates, 84M/0373; mineral crystallization from soln., 84M/0374; Ostwald ripening in soln., calcite, mica examples, 84M/0375; conditions for, relation to morphology, 84M/0376; in industrial processes, factors influencing, 84M/0381; processes in Portland cement pastes, 84M/0382; carbonate minerals, nucleation, polymorphic precipitation, 84M/0384; in gels, lab. analogue of nature, 84M/0385; modern theory, growth, props., applications (book), 84M/2456; epitaxial structures, intergrowth compounds, melting and solidification of , 84M/2650; two-component, microscopic theory, 84M/2651; statistics of surfaces, steps, 2-dimensional nuclei, macroscopic ap-

Crystal growth (*contd.*)
proach, 84M/2652; surface, volume diffusion controlling step movement, 84M/2653; rates in basaltic systems, corresponding states equation, 84M/3333; *in situ* observations under high-*P*, 84M/3963; apatite crystallites, new mode of growing, 84M/0440; baryte crystals in suspension, influence of phosphonates, 84M/0387; calcite, heterogenous precipitation, 84M/0432; corundum crystals from cryolite flux, growth spirals on, 84M/0401; corundum in $PbO–B_2O_3$ flux, 84M/3951; sector zoned clinopyroxenes, lab. growth, 84M/1614; fibrous cuprite (chalcotrichite), TEM study, 84M/1577; diamond, spheroidal crystals, 84M/0816; diopside, Czochralski grown, 84M/0456; vapour phase growth of enstatite whiskers/platelets in interplanetary dust, 84M/3085; Ge crystals grown at zero gravity, outstripping of dislocations by growth front, 84M/3962; synthetic gypsum at low supersaturation, 84M/0428; Ca-phosphate, precipitation using silica gel technique, 84M/0388; sinusoidal (rhythmic) zoned plagioclase crystals, 84M/2748; quartz in $CaSO_4$ brines, 84M/1862; silica-gel, role of diffusion, 84M/2657; Ca-silicates, history, bibliog., 84M/0464; struvite and newberyite, effect of pH and concentration, 84M/0201; $BaTiO_3$, flux growth of bulky crystals, 84M/2689; $KMgP_3O_9$, $KZnP_3O_9$, $KCaP_3O_9$, 84M/1602; $MgGeO_3$ polymorphs with pyroxene structure, flux, growth, 84M/2727; chatoyant synthetic $MgTiO_3$ single crystals, gemmological use, 84M/1643; $NaClO_3$ crystals in aqueous soln., growth and dissolution rates, 84M/3965; NaY zeolite with 'crystal direction agent', 84M/2758; *USSR, Seligdar deposit*, apatite crystals, stunted, twisted, unusual habits, 84M/0875; *Thailand*, growth spirals on etched kaolinite crystals, 84M/0107
—, habit, microminerals, descriptions, possible causes, 84M/4614
—, morphology, relation to growth conditions, use as geol. indicator, 84M/0376; of crystals in industrial processes, factors influencing, 84M/0381; morphology, and habit, use of interactive computer graphics, 84M/1229; controlling factors, 84M/1551; brushite grown in silica gel, relationship with structure, 84M/0441; corundum crystals from cryolite flux, surface micro-topography, 84M/0401; diamond crystals 'oxidized' under varying conditions, 84M/3966; saddle dolomite, formation, occurrence, discussion, 84M/1599; monoclinic K-feldspar, emphasis on periodic bond chain theory, 84M/2525; spherical kaolinite, first synthesis, 84M/3737; magnetite, hematite in ferruginous quartzites, 84M/1875; biogenic magnetite particles in aquatic bacteria, 84M/3199; nordstrandite, 84M/2696; high-sanidine, structural morphology, 84M/2526; synthetic hydrothermal scheelites, 84M/0419; whewellite, growth morphology, theoretical prediction from structure, 84M/3854; zinc crystals grown by vacuum evaporation, 84M/3964; *USSR, Krivoi Rog*, magnetite in ferruginous quartzites, 84M/3198; *Seligdar deposit*, apatite crystals, twisted, stunted, unusual habits, 84M/0875; *Transcarpathia, Beregovo deposit*, baryte, 84M/0862; *Bulgaria, Kenan Dere deposit*, negative crystals in sphalerite, 84M/0852; *Mogilata Pb-Zn deposit*, peculiar morphology of quartz, epitaxial overgrowth as cause, 84M/0806; *Japan, Iwate Pref., Takayama*, bipyramidal calcite crystals, 84M/4587; *Kyoto Pref., Gyojayama*, cassiterite, 84M/4597; *Horikoshi*, laumontite, new planes in, 84M/4246; *Shiga Pref., Takashima dist.*, bertrandite, 84M/4602; *Australia, Northern Territory, Rum Jungle*, control by *T*, fluid inclusion study, 84M/3220; *Canada, Quebec, Henderson no. 2 mine*, cubanite crystals, 84M/1900; *USA, Missouri, Buick mine*, siegenite, 84M/4264; *New Jersey, Oxford Stone quarry*, ferroaxinite, 84M/1836; *Brazil, Bahia, Pedra Preta mine*, largest known sellaite crystals, 84M/1920
—, optics, Gladstone-Dale relationship compatibility concept, application, 84M/1153; complex indicatrix equation, derivation of RIs, adsorption constants from, 84M/1231; synthetic amphiboles on join $Mn_x^{2+}Mg_{7-x}(Si_8O_{22})(OH)_2$, effect of increasing Mn substitution on RI, 84M/1617; RI detn. using central focal masking technique with dispersion colours, 84M/2366; relationship between RI and density for SiO_2 polymorphs, 84M/4526; $CaCr^{2+}Si_4O_{10}$, high-*P* pleochroism, 84M/4524; *Sweden*, reverse pleochroism in Mn-bearing phlogopite, cause, 84M/1849; *Switzerland/Italy, Lepontine Alps*, cordierite, 84M/0774; *Spain, Hortsavinya*, anomalous birefringence in grandite garnets, effect of sector zoning on, 84M/0766; *Portugal, Guardão region*, K-feldspars from granitic rocks, 2V angle and structure, relationship, 84M/3174; *Japan, Kamaishi mine*, birefringence of grandite garnets, 84M/0765
—, structure, lattice parameters of polycrystalline substances, detn., statistical method, 84M/0056; lattice parameters of orthorhombic crystals, detn., from powder patterns, new method, 84M/0058; tetrahedral framework compounds, struct. behaviour, review, 84M/0148; mineral symmetries, statistical study, 84M/0150; Bragg angle measurement and mapping, 84M/0151; inorganic layered structures, proper layer description and representation, 84M/0152; star-tetrahedron struct. transformation, calculation of bond energies, 84M/0153; Bravais lattices, general procedure for detn., 84M/0154; tectosilicates, slipping scheme of double-crankshaft structures, min. implications, 84M/0179; sphalerite structure, dynamic deformation effects, Debye-Waller factors, 84M/0189; struct. type of trivalent element sulphates, detn. from chem. formula, 84M/0199; detn. of lattice constants, space groups, use of new Weissenberg method, 84M/1237; tetrahedral framework compounds, structural behaviour, review, 84M/1346; Fe-minerals and model compounds, X-ray K-edge adsorption spectra, 84M/1347; Bravais classes for incommensurate phases, 84M/1348; Bravais classes of modulated crystals, Wyckoff positions used in classification, 84M/1349; Bravais class of certain incommensurate crystals, detn., 84M/1350; polyhedral clusters, graphical enumeration, 84M/1351; phase relationships in space groups $P4_1$ and $P4_3$, correction of error in Intl. Tables for X-ray Cryst., 84M/1353; topological anal., 84M/1354; germanate micas, structural variation with octahedral cation substitution, 84M/1356; 'symmetrizers' for enhanced vector symmetry, 84M/1357; polytypes, stacking faults in tetrahedral compounds, EM imaging, 84M/1358; application of pattern fitting structure refinement, 84M/1370; framework silicates, structural division into three classes, 84M/1381; rhombohedral carbonates, 84M/1908; Patterson transformation for point group sets of points, 84M/2496; aluminate and silicate tetrahedra, polymerization in glasses, melts, aqueous solns., 84M/2497; mineralogically likely and unlikely, 84M/2498; crystallographic groups, classification and props. of orbits, 84M/2500; solid-liquid interface, 84M/2501; space group C_{6v}^4, decompn. of direct products of irreducible representations, 84M/2537; enumeration of 4-connected 3-D nets, classification of framework silicates, 84M/3781; Σ_1, relationships, probability correlation, tables of 230 space groups, 84M/3782; 4-D crystal classes, graphic representation, nomenclature, individual symmetry operations, 84M/3783; symmetry of incommensurate structures, dualistic interpretation, 84M/3784; inorganic data, standardization of, 84M/3786; crystal monochromators, polarization ratio, IUC Commission survey, 84M/3788; new series of superstructures based on clinopyroxene 'enstatite IV' series, 84M/3801; structure of Sc series of 'enstatite IV', 84M/3801; divalent metal brucite-like hydroxides, 84M/3835; unnamed petroporphyrin, 84M/3855; synthetic Co-åkermanite, 84M/0159; synthetic Sr-åkermanite, 84M/1363; amphibole microstructures, 84M/0166; synthetic P-substituted analcime, 84M/3822; ankerite, superstructuring evidence, 84M/3846; asbolan (wad), 84M/3836; augite from alkaline basalts, 84M/0782; berlinite, refinement, 84M/1352; bertrandite, high-*P*, 84M/4523; beryl, high-*P*, 84M/4523; Ca-Mg and Ca-Mn-borates, 84M/0204; cacoxenite, 84M/3852; cappelenite, 84M/3798; carbynes, 84M/2535; cerite, 84M/2508; chabazite, refinement, 84M/2532; chalcanthite grown under microgravity, 84M/3845; length-fast chalcedony, 84M/3816; chlorite, polytypism, 84M/1372, 84M/1373; non-stoichiometric synthetic cliffordite, 84M/3828; synthetic clinopyroxenes between $CaFe^{3+}AlSiO_6$ and $CaFe^{3+}_{0.85}Ti_{0.15}Si_{0.85}O_6$, 84M/0164; Ca-rich clinopyroxenes on join $CaMgSi_2O_6–Mg_2Si_2O_6$, 84M/3803; cronstedtite-$2H_2$, 84M/1374; demesmaekerite, 84M/0188; derriksite, 84M/2540; diamond, lattice perfection, 84M/0183; dickite, refinement, 84M/3734; subcalcic diopside, 84M/0162; diopside, lattice dynamics, 84M/0163; thermally disordered do-

Crystal structure (*contd.*)
lomite, 84M/1399; eclarite, 84M/3840; enstatite, 84M/3799; euclase, high-*P*, 84M/4523; Fe(III)-rich fayalites, 84M/2502; fedorite, 84M/1386; alkali feldspars, 'diagonal association' in, 84M/0177; gainesite, 84M/3236; ganophyllite, monoclinic subcell, 84M/0173; garnets, distrib. of Fe^{3+}, Ga^{3+} between octahedral, tetrahedral sites, 84M/0156; gillespite, phase transition, 84M/0168; goethite-rutile intergrowths, 84M/2692; grandite garnets, connection with growth mechanism, 84M/1359; hackmanite, 84M/1378; hinganite-(Yb), 84M/3794; hydrosodalite, synthetic sodalite-like phase, 84M/3820; ikaite, refinement, 84M/1400; synthetic ilmenite at high-*T*, *P*, 84M/3823; ilvaite, 84M/1364; johannite, 84M/3844; kaolinite minerals, 84M/1375; kaolinite, refinement, 84M/3734; kaolin mineral $Al_2Si_2O_5(OH)_4$, 84M/0175; synthetic kotoite, 84M/2549; lamprophyllite, 84M/2512; leucophoenicite, 84M/2503; liebigite, 84M/3848; synthetic Mn-lipscombite, 84M/1401; machatschkiite, 84M/2548, 84M/3851; meta-uranocircite, 84M/3853; Li-micas, 84M/0171; synthetic mullite, 84M/2510; murdochite, 84M/1388; muscovite, refinement, 84M/1370; partially disordered natrolite, refinement, 84M/1382; nagashimalite, 84M/0161; synthetic newberyite, 84M/3849; niocalite, 84M/3796; ohmilite, refinement, 84M/1366; okenite, 84M/0167; olivine, point defects, 84M/1605; olivine and spinel polymorphs of Mg_2SiO_4, 84M/3793; orthoericssonite, 84M/0158; orthorhombic Ba-orthotitanate, α'-Ba_2TiO_4, 84M/3832; oxalic acid dihydrate, 84M/3785; pachnolite, 84M/1405; paragonite-$2M_1$, 84M/3806; parahilgardite, 84M/0203; di-trioctahedral Li, Fe-phengite 1M, 84M/3808; pinnoite, 84M/3834; plagioclase, 84M/1376; plagioclases, simultaneous detn. with compn., X-ray method, 84M/3178; synthetic vanadium pyroxenes $Na_xLi_{2-x}V_2O_6$, 84M/0165; intermediate pseudohexagonal pyrrhotite, 84M/0190; ramdohrite, 84M/0194; reinhardbraunsite, 84M/2504; sahamalite, 84M/2545; scapolite, 84M/1863; shakhovite, 84M/3829; silica, layered forms, 84M/1378; simonite, 84M/0192; sodalite and members of sodalite group, 84M/3819; sodalite-like $Ca_8(Al_{12}O_{24})(WO_4)_2$, 84M/3833; spinelloids, 84M/2494; staurolite, history, 84M/2511; stilbite, surficial Al/Si ordering, 84M/0180; surinamite, 84M/1367; sursassite, 84M/3795; tancoite, 84M/2547; teschemacherite, refinement, 84M/3850; tetraferribiotite, 84M/0170; tetraferriphlogopite, 84M/0170; low tridymite, space group, 84M/0808; upalite, 84M/1402; vermiculite intercalated with aniline, 84M/1320; vesuvianite, 84M/2507; synthetic vonsenite, 84M/1409; synthetic Sn-wadeite, 84M/4038; wollastonite, 84M/3799; intergrown wonesite, chlorite, talc, biotite, kaolinite, 84M/0172; wüstite, 84M/2541; BaFCl, influence of high hydrostatic *P*, 84M/0447; $Ba(HCOO)_2$, 84M/2550; synthetic $Ba(NO_3)_2$, 84M/0205; $Ba_2Ti_9O_{20}$, 84M/0184; compounds in $Ba_2TiGe_2O_8$–$Ba_2TiSi_2O_8$ system, 84M/4037; $BaZnGeO_4$, shock-induced phase change, 84M/1579; synthetic Bi_2O_2S, 84M/3839; Ca_2As_3, 84M/3841; $CaGeO_3$ perovskite, 84M/2538; synthetic $Ca_{3-x}[GeO_4](O_{1-2x},F_{2x})$ with $x \sim 0{\cdot}275$, 84M/3837; synthetic $CaSO_4{\cdot}0{\cdot}8H_2O$, 84M/0198; $CaTiO_3$, 84M/1387; $CaZrO_3$, 84M/1387; CdI polytypes, 84M/0206, 84M/0207; CdI_2, new polytypes, 84M/1408; α-Co_2SiO_4, 84M/1362; metastable Cu_4O, 84M/3831; compounds in Cu_2S–Bi_2S_3 system, 84M/0191; Eu_2Sb_3, 84M/3841; synthetic Fe_7S_8, 84M/0197; K_2MoO_4, 84M/0185; $K_2Si^{6+}Si^{4+}O_9$, 84M/0169; artificial $K_2TiSi_6O_{15}$, 84M/2509; LaF_3, 84M/1407; ortho-, clinopyroxene-type $MgGeO_3$, 84M/1365; $MgGeO_3$ polymorphs, 84M/2727; $NaBaNd(Si_2O_7)$, 84M/3797; low-*T* $NaCaPO_4$, 84M/1404; $Na_6Sn_4[GeO_4][Ge_2O_7]_2O_2(OH)_2$, 84M/2539; $(Na_{0\cdot12}, H_3O^+_{0\cdot38}, H_2O_{0\cdot50})_6(Na_{0\cdot12}, H_3O^+_{0\cdot88})[K_2(K_{0\cdot333}, H_2O_{0\cdot667})_6\ Na_2Fe^{3+}_6O_2(SO_4)_{12}{\cdot}6H_2O]$, 84M/1396; olivine-related $(Ni,Mg)_3(PO_4)_2$ solid solns., 84M/1403; synthetic $Ni_{17}S_{18}$, 84M/0196; $NiSO_4{\cdot}6D_2O$, 84M/0200; α-Ni_2SiO_4, 84M/1362; $Pb_2Sb_2S_5$, 84M/1394; synthetic $Sr(NO_3)_2$, 84M/0205; $Sn_2Sb_2S_5$, 84M/1394; synthetic $SrSeO_4$, 84M/3838; Sr_2SiO_4, order-disorder in α' form, 84M/1360; X-ray, opt., ferroelasticity of β form, 84M/1361; undoped Y_2O_3 single crystals, 84M/3830
—, twins, drawing, computer program for, 84M/0057; alkali feldspars, effect of 'diagonal association' on X-ray electron diffraction patterns, 84M/0177; pericline twinned Na-phase of cryptoperthite, TEM study of angle σ, 84M/0178; rutile, complex epitaxial twins, cubic and hexagonal symmetry, 84M/0827; $(Na_{0\cdot12}, H_3O^+_{0\cdot38}, H_2O_{0\cdot50})_6(Na_{0\cdot12}, H_3O^+_{0\cdot88})[K_2(K_{0\cdot333}, H_2O_{0\cdot667})_6 Na_2Fe^{3+}_6O_2(SO_4)_{12}{\cdot}6H_2O]$, 84M/1396; upalite, mimetic twins, 84M/1402; graphite, classical/non-classical twins, 84M/2534; arsenopyrite, explanation for, 84M/3569; niocalite, 84M/3796; enstatite and wollastonite, polysynthetically-twinned structures, 84M/3799; length-fast chalcedony, Brazil twinning in, 84M/3816; flattened twins in equant minerals, possible explanation, 84M/4614; *Germany, Bavaria, Acherwiese*, quartz Japan twins, occurrence, 84M/3599; *Austria, Rauris Valley*, bertrandite, 84M/3602; *Nambia, Swakop area*, boltwoodite twins on $\{\bar{1}01\}$, 84M/3122; *USA, Arizona, Ray mine*, copper, spinel-twins, 84M/4610
Crystallography, Renaissance background to, 84M/0155; use in tests for origin, prediction, exploration, assessment of min. deposits, 84M/0211; high *P*, *T*, use of fluorite as internal pressure standard, 84M/0345; use of X-ray photoelectron spectra, mesolite example, 84M/1867; International Table, space group symmetry (book), 84M/3695
Crystals, drawing, computer program for, 84M/0057; euhedral, possible mechanism of formation in metasomatic processes, 84M/1550; compositional zoning in, record of growth, reaction history, 84M/2637; with discrete cores, implications for U–Pb systematics, 84M/3631; liquid, interaction with mineral electric fields, 84M/3680
CUBA, asbolan (wad), structurally disordered with tetrahedrally coordinated Mn, 84M/3836
Cubanite, *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Canada, Quebec, Henderson no. 2 mine*, World's finest crystals, morphology, anals., 84M/1900; *Pacific Ocean, Costa Rica rift*, in basalts, 84M/2186
'Cuirasse' *v.* ferricrete
Cummingtonite *v.* amphiboles, cummingtonite
Cumulates, *Norway, Fongen-Hyllingen complex*, chem., bearing on layering origin, evidence, 84M/3340; *France, Ballons massif*, in gabbro-dioritic orthocumulates, min., petr., evidence for sialic contamination of magma, 84M/0962; *Turkey, Antalya*, magmatic, evidence for multiple intrusions in ophiolitic magma chamber, 84M/2105; *Iran, Neyriz*, ultramafic, mafic in ophiolitic complex, 84M/2106
Cuprite, fibrous (chalcotrichite), microstructures, growth mechanisms, TEM study, 84M/1577; occurrence in Cu converter slags, microprobe anal., 84M/2670; *Austria, Styria, Johnsbach*, occurrence, description, 84M/2303; *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *USA, Arizona, Ray mine*, lustrous crystals and fibres (chalcotrichite), descriptions, 84M/4610; *Chile, Chuquicamata*, crystals, description, 84M/3607
Cupropavonite, *Austria, Waschgang*, in Au–Cu deposit, ore mineralogy, anal., 84M/3902
Cuspidine, *China, Dading Sn–Fe deposit*, occurrence, 84M/3123
Cylindrite, *Bolivia, Poopo area* and *USSR, Smirnovskoe deposit*, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216
Cymrite, *Japan, Tokyo Pref., Shiromaru mine*, in Mn-ore, 84M/4603; *New Zealand, Aorangi mine area*, occurrence in graptolite-rich Ordovician rocks, 84M/1098
CYPRUS, boninite-like lavas, petrogenesis, chem. and Nd–Sr isotopic constraints, 84M/1731; Cretaceous metalliferous deposits, anals., comparisons with Pacific pelagic clays, 84M/2078; min. exploration, application of induced polarization, 84M/3038; *Kalavasos ore deposits*, form, environment of formation, 84M/2076; *Kokkinorotsos mine*, Pt-group minerals in chromitites, 84M/2074; *Limassol Forest*, Cu-Ni-Co-Fe-sulphide mineralization, 84M/2075; *Mamonia complex*, Mesozoic continental margin, relationship to Troodos complex, 84M/2073; *Pentadaktylos Range*, volcanism and continent-island arc collision, 84M/2072; *Troodos complex*, antidromous evolution of ophiolites, stoichiometric geochem. aspects, 84M/0568; *Troodus massif*, structural implications in evolution, 84M/2069; rotation of Cyprus microplate, evidence from overlying sediments, 84M/2070; sheeted complex, new interpretation as component of upper ophiolite magma chamber, 84M/2071; role

CYPRUS (*contd.*)
in unravelling ophiolite problem, significance in understanding constructive plate margin processes, 84M/2067; tectonic setting in east Mediterranean, 84M/2068; induced polarization geophys. exploration method, applicability to sulphide mineralization search, 84M/2077; *Troodos ophiolite*, metallogenesis with, 84M/2134; *Troodos* and *Hafay ophiolites*, isotopic ages, 84M/2095
CZECHOSLOVAKIA, Cainozoic melilitites, isotope and tr. element evidence for alkali basalt to kimberlite transition, 84M/0556; *Bohemian Massif*, titanomagnetites, changes of structure, phase compn., electrical conductivity under high-*T* oxidation, 84M/0405; *northern margin*, intracrustal, subcrustal thrust tectonics, 84M/3273; *Bory*, lamellar pyroxenes, petrogenetic significance, 84M/1838; *West-Moravia, Ctidružice*, masutomilite in Li-pegmatites, 84M/3162; *Dobsina*, krupkaite, second occurrence, X-ray data, 84M/1898; *Hodruša-Deep deposit*, Pb–Zn–Cu ore, processing, application of flotation, 84M/0280; *Javorie Mtns.*, ore mineralization in, 84M/0254; *Jelšový potok 1 deposit*, stibnite in bentonites, proof of origin, 84M/0121; *Jelšový Potok* and *Askangel*, montmorillonite, surface and catalytic activity, 84M/0099; *Joachismstal*, johannite, crystal structure, 84M/3844; liebigite, crystal structure, 84M/3848; *Karpaty Mtns., Pezinok deposit*, Sb-rich arsenopyrite, microprobe anals., 84M/1899; *Klippen belt*, eclogitic pebbles in Cretaceous conglomerates, 84M/1129; *Kremnické vrchy Mtns.*, clay raw materials, min. compn., genesis, 84M/0119; *Kutná Hora, Turkaňk zone*, sphalerite, In content, 84M/1896; *Malé Karpaty Mtns.*, granitoid rocks, Rb/Sr isochron age, 84M/0017; granitoids, major element chem., contribution to petrogenesis, 84M/0969; *Maršikov*, chrysoberyl in metamorphosed pegmatites, formation, 84M/3204; *Moravia*, andalusite in peraluminous Eisgarn type granites, magmatic genesis, 84M/3356; *Nižný Hrabovec*, zeolitic tuffite, min., props., possible uses, 84M/0301; clinoptilolite tuffs, *T*-stability, 84M/0481; clinoptilolite content in zeolitic tuffites, detn., 84M/0811; *Pieniny Klippen belt*, lawsonite from rock pebbles in Cretaceous conglomerate, 84M/0772; *Příbram*, cronstedtite-2H_2, crystal structure, 84M/1374; *Sienna synform*, gneisses, relationship to deformational stages in Šnieznik massif, 84M/4491; *Slovakia*, rock wastes in central neovolcanic region, min. compn., 84M/0134; deep-seated CO_2, origin, 84M/0511; rubification of terrae rossae, Mössbauer study, 84M/3767; *central*, clays from altered rhyolites, origin, distrib., 84M/0118; *central* and *southern*, alkaline basalts, palaeomagnetism, radiometric ages, 84M/1166; *eastern*, Neogene volcanic rocks, prognostic areas of porphyry Cu deposits in, 84M/0255; alunite occurrences in neovolcanites, possibilities, 84M/0296; *Slovenské rudohorie Mtns., Novoveská Huta*, U–Ti minerals, anals., 84M/0836; *Smolník*, tr. element zoning in pyrite-Cu ore minerals, comparisons, 84M/0527; basic volcanic rocks, petrogenesis, 84M/0971; new secondary sulphates, 84M/1180; *Štiavnické vrchy Mtns., Zlatno deposit*, porphyry Cu ore, geol., 84M/0282; *Strážovské Hory* and *Považský Inovec Mtns.*, metamorphism in crystalline complexes, 84M/1130; *Sudetes Mtns., Izera block*, proposed classification, nomenclature of gneisses, granites, 84M/4322; *Trebnitz*, pyrope, cation distrib., 84M/1827; *Třebsko deposit*, andorite-fizelyite and miargyrite in ores, anals., 84M/0856; *Vashegy (now Železník)* and *Chvaletice*, vashegyite, sheet phosphate, new data, 84M/1918; *Vtáčnik Mtns.*, Au in pyrite, data, 84M/0526; *Vel'ké Pole, Ján deposit*, Pb-deposit, new economic geol. interpretation, 84M/0281; *Žďár u Staré Paky*, mordenite, study of vibrational spectra, 84M/1383; *Želenzné hory pluton*, granitic, gabbroic rocks, geochem., 84M/0563; *Zemplínske pohorie Mtns, Vel'ká Tŕňa area*, mordenite in altered Miocene rhyolite volcaniclastic rocks, 84M/0814; *Žežice*, levyne-offretite intergrowths, new chem., phys. data, 84M/0812; *Žiar Mtns.*, panning prospection in crystalline rocks, results, 84M/0253; *Zlaté Hory*, rutilization of ilmenite, 84M/1874; pyrrhotine, alteration to pyrite, genetic, geochem. aspects, 84M/1892; *Žulová massif, Černá Voda quarry*, powellite replacing molybdenite, props., 84M/1881

Dacite, *USSR, Aktobinskaya volcanic structure*, garnet from porphyritic, genesis, 84M/0760; *south east Spain*, garnets in, 84M/3126; *Greece, Santorini volcano, Nea-Kameni*, hyalodacites, geochem., inferences for solfatara origins, effects, and magmatic evolution, 84M/4109
—, magma *v.* magma, dacitic
Dadsonite, microprobe data, 84M/3209
Dalradian rocks, *Scotland*, occurrence, age, 84M/0910; *Angus area*, localized uplift in, Rb/Sr age evidence, 84M/3639; *Scotland* and *Ireland*, slides, possible origin as extensional faults, 84M/4311; *south west Scotland* and *north east Ireland*, albite porphyroblast schists, petrogenesis, 84M/1122; *Ireland, Connemara*, major southward thrusting, 84M/3526
Dalyite, isotypic with artificial $K_2TiSi_6O_{15}$, 84M/2509
Dannemorite *v.* amphiboles, dannemorite
D'ansite, *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270
Data, logarithmic transformed, inversion of variance relations by, 84M/3681
Datolite, *Japan, Aichi Pref., Toyohashi City area*, from metadolerite, occurrence, X-ray data, 84M/4576
Davanite, *USSR, Yakut ASSR, Davan Spring*, new mineral, 84M/4283
Dedolomitization, *USA, South Dakota* and *Wyoming, Black Hills*, process, rate, mass transfer and ^{14}C dating in carbonate aquifer, 84M/3017
Deep Sea Drilling Project *v.* DSDP
Delafossite, occurrence in Cu converter slags, microprobe anal., 84M/2670; *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; occurrence, anals., 84M/0834
Demesmaekerite, cryst. struct., 84M/0188
DENMARK, soil phosphate adsorption, effects of Fe-oxides on, 84M/1301; *Bornholm*, Precambrian, Palaeozoic, Mesozoic rocks, *in situ* thermal conductivity measurements, 84M/1168; high-alumina glauconi from Middle Cambrian, 84M/2205; *Skjernå delta*, pyrite, siderite formation in swamp sediments, 84M/0598; *Faeroe Islands*, zeolites, fission track dating, 84M/0013; basaltic lavas, genesis, isotope and tr. element constraints on, 84M/0554
Density, of dry subaqueous sediments, detn., method, 84M/0054; silicate melts, detn. of Pt sphere positions in, radiographic method, 84M/3984; *New Zealand, South Island, West Coast*, Tertiary sedimentary rocks, 84M/1159
Derbylite, *Italy, Buca della Vena mine*, occurrence, XRD, anals., 84M/1887
Derriksite, crystal structure, 84M/2540
Dervillite, *France, Haut Rhin, Sainte-Marie-aux-Mines*, re-examination of holotype, new formula, data, 84M/3215
Desert varnish, *Antarctica, Taylor Valley area*, on dolerite, sandstone, nuclear microprobe and ^{57}Fe Mössbauer studies, 84M/2978
Descloizite, *USA, Arizona, Glove mine*, occurrence, 84M/4609
Devilline, *Germany, Clara mine*, new find, 84M/4559; *Hagendorf*, secondary, description, 84M/0877; *Austria, Styria, Johnsbach*, occurrence, description, 84M/2303; *Czechoslovakia, Smolník*, (herrengrundite), new occurrence 84M/1180
Devonian period, *Germany, Rheinische Schiefergebirge*, neritic sedimentation in Lower/Middle, 84M/3258
—, rocks, *Norway, Solund*, lavas, field relationships, geochem., 84M/4354; *Scotland*, Old Red Sandstone deposits, lithology, 84M/0914; *Inverness-shire, Mealfuarvonie outlier*, Old Red Sandstone, geol., lithology, 84M/1065; *Morayshire*, Upper ORS Cothall limestone, lithology, 84M/1066; *Ireland*, mineralization in ORS, significance to exploration, 84M/1441; *Silvermines* and *Ballynoe deposits*, lithostratigraphy, 84M/1452; *Belgium, Daverdisse*, detrital chromite in, anals., 84M/1878; *Germany, Dill syncline*, shales, feldspathic sandstone, lithology, 84M/2210; *Rheinische Schiefengebirge*, limestone-turbidites, tectonic significance, 84M/3260; *south eastern Australia*, origin of submarine 'crystal tuffs', example, 84M/3432; *USA, Appalachian Basin*, shales, clay min., 84M/3769
Deweylite, *Japan, Gifu Pref., Naradani*, and Ni-deweylite, occurrence, X-ray data, 84M/4584
Dewindtite, *Germany, north Bavaria*, with U minerals in tectonized wallrock, 84M/1460
Diabase *v.* dolerite
Diamond, naturally occurring vacancy related colour centres, spectroscopic study, 84M/0182; lattice perfection, light scattering, 84M/0183; handled by Harry Winston Inc., history, 84M/0483; pink and fish-shaped carved, description, 84M/0498; picturesque inclusions in, lab. notes, 84M/0499; painted pink with nail polish, description, 84M/0499; spheroidal crystals, new type of fibrous single crystals,

Diamond (*contd.*)
84M/0816; natural crystals of different habit, velocities of catalytic oxidation by H_2O vapour, 84M/2679; 56·71 carat tabular gemstone, brief description, 84M/2759; C isotope variations in individual, 84M/2816; spectral type II, C isotope variation in, 84M/2817; type-1, detection in interstellar particles near μ-Cephei, 84M/3081; natural, min. classification, 84M/3187; paragenesis, problem of abyssal mineral formation, review, 84M/3190; crystals 'oxidized' under varying conditions, morphology, 84M/3966; synthetic microcrystals, morphology classification, 84M/4039; dendrites in, description, 84M/4056; *USSR, north east Siberian platform*, occurrences, 84M/0981; *Urals, Siberia* and *Yakutian pipes*, sulphide inclusions in, characteristics of paragenesis, 84M/3189; *Yakutia* and *north Kazakhstan*, 'Dnestrovsk' type in eclogite xenoliths and placers, discovery, 84M/3188; *Mir* and *Udachnaya pipes*, djerfisherite in sulphide inclusions in, 84M/4263; *China*, characteristics of containing sediments, 84M/3924; *South Africa*, primitive He in, 84M/2818; *Brazil, Paraná, Tibagi River deposits*, oriented enstatite inclusions in, 84M/4248
—, -bearing rocks, in kimberlites, volcanic nature, 84M/0950
—, simulants, 'C–Ox' (cubic zirconia), description, 84M/4056
Diaphorite, *Sweden, Hällefors region*, probable occurrence with Ag minerals, 84M/1436
—, -like mineral, *India, Rajpura Dariba*, mineral 'MZ', microprobe data, 84M/3209
Diapirs, *Iran, Zagros geosyncline*, salt, relation to varying tectonic styles, 84M/1995
Diaspore, thermochem., 84M/1583; colour change in, cause, 84M/1646; gem quality, description, 84M/4057
Diatoms, *New Zealand, Auckland prov.*, accompanying vivianite, 84M/1914; *Bolivia*, authigenic smectite on frustules from saline lakes, 84M/0130
Dickite, nature of interlayer bonding in, 84M/0176; orientations of OH-bonds, comparison of diffraction methods, electrostatic calculations, 84M/1304; effect of crystal field on vibration spectrum, 84M/1375; *Germany, Erzgebirge, Markersbach*, in granite, description, 84M/0116; *USA, Colorado, Ouray*, structure refinement, 84M/3734
Differential thermal analysis, application to igneous rock mineral anal., 84M/2447
Digenite, *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Diopside *v.* pyroxene, diopside
—, melts *v.* melts, diopside
Diopsidic glasses *v.* glasses, diopsidic
Dioptase, *USA, Arizona, Tiger*, black, occurrence, cause, 84M/4611
Diorite, thermal props. at high-*T*, 84M/1167; *England, south Leicestershire*, possible extension of complex, 84M/0959; *Channel Islands, Jersey*, layering in, nature and origin, 84M/2020; *south east Jersey*, nature, origin of layering in, discussion and reply, 84M/3349; *Japan, Maizuru City, Ōura complex*, hornblende-rich, generation of late differentiates midway in layered sequence, 84M/3381; *Canada, Labrador, Nain complex*, fractional crystallization, magma mixing in layered intrusion, 84M/3392; *USA, Colorado, Stony Mtn. complex*, cooling history, O-isotope depletion patterns, anals., 84M/1736
Djerfisherite, *USSR, Mir* and *Udachnaya pipes*, in sulphide inclusions in diamond, 84M/4263
Djurleite, *Germany, Clara mine*, occurrence, paragenesis, 84M/4562
Dolerite, *Greenland, Independence Fjord*, intrusive, interaction with sialic crust, 84M/2017; *Norway, Western Gneiss region*, dykes, Rb/Sr study, 84M/0007; *Sweden, Ottfjället*, age, metamorphism, $^{40}Ar/^{39}Ar$ data, 84M/0008; *England, Derbyshire, Ible sill*, wallrock within, hydrothermal alteration, 84M/4473; *Spain, Jaén, Valdohornillo*, hydrothermal veins in, 84M/3500; *Caucasus Mtns.*, radiation effects, ages, ident. by Fe Mössbauer spectra, 84M/3629; *USA, Minnesota* and *Canada, Ontario*, Proterozoic dykes, geol., petr., 84M/1010; *Chile, Sarmiento ophiolite complex*, unusual ocellar textures in, 84M/4444; *Antarctica, Taylor Valley area*, desert varnish on, nuclear microprobe and ^{57}Fe Mössbauer study, 84M/2978
—, dykes *v.* dykes, dolerite
Dolomite, effect of mechanical energy on finely ground, 84M/0433; standard for EM, microprobe anal., 84M/0728; sedimentary, growth defects in, TEM study, 84M/0870; sedimentary, microstructures in, 84M/1398; thermally disordered, structure refinements, 84M/1399; Fe-, Mn-containing, order-disorder relations, 84M/1597; saddle dolomite, formation, occurrence, discussion, 84M/1599; electron density distrib., 84M/2543; weathering patterns by lichens, cyanobacteria, evidence for eolian contribution to terra rossa soil, 84M/3774; siliceous, progressive metamorphism of, equilibrium and mass transfer, 84M/3979; *England, Yorkshire, Settle* and *Malham area*, resources, 84M/0294; *Scotland, Ballachulish area*, genetic types, distinction by ESR spectroscopy, 84M/4274; *north east Spitsbergen*, Precambrian crystals, effect of glacial transport, neomorphism on sizes, 84M/3470; *Poland, Waryński mine*, zincian, X-ray reflection intensities, exptl. values, 84M/0872; *Alps, Gran Paradiso region*, Triassic, tectonic significance, 84M/3476; *Italy, Lucania, Lagonegro*, laminations with chert in Triassic siliceous limestones, 84M/2209; *Spain, Alcázar de San Juan*, in saline sediments, 84M/2614; *Menorca*, terrigenous in Miocene, provenance, diagenesis, 84M/1076; *Israel, Judean Hills*, platform, origin, new evidence, 84M/1089; *India, Karnataka, Chiknayakanhalli dist.*, occurrence, anals., DTA, 84M/4275; *Australia, NSW, Broken Hill*, zincian, chem., 84M/0873; *Egypt, northern Western Desert*, primary, viability as oil reservoir, occurrence, significance, 84M/1087; *Namibia, central* and *southern Damara orogen*, siliceous, metamorphism of, 84M/3286; *USA, Arizona, Vekol mine*, ferroan-, crystals, anal., 84M/2323; *Texas, Texas Panhandle*, complex polyhedral limpid dolomite crystals on halite, 84M/0871
Dolomitization, *South Africa, Malmani dolomite*, Early Proterozoic, palaeohydrological model, 84M/3479; *Canada, Belcher Islands*, regimes, evidence from Precambrian dolostone sequence, 84M/1102; *British Columbia, Williston basin*, early, role in creating hydrocarbon traps, 84M/4466; *USA, California, Lost Burro formation*, burial, significance of late diagenetic dolomitization, 84M/1104; *New York State*, in shallowing-upward formation, 84M/2225; *North Sea central graben*, in chalk, 84M/1067; *v.* also dedolomitization
Dolostone, *Canada, Belcher Islands*, Middle Precambrian sequence, evolution, dolomitization regimes, 84M/1102
Domeykite, *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Dravite *v.* tourmaline
Drift, *USA, north west Washington*, soils from glacial-marine, min. transformations in, 84M/3776
Drill cores, *South Africa, Thabazimbi*, from andalusite deposit, evaluation, 84M/0295
Drilling mud *v.* mud, drilling
DSDP, Sr-isotopes in marine sediment interstitial waters, 84M/3028; *sites 241, 250*, clay mineral diagenesis, 84M/3772; *holes 463, 465, 465A, 466*, volcanogenic Cu, Zn minerals, 84M/3895; *site 467*, organic geochem., 84M/0679; *sites 504, 505*, sedimentary, diagenetic processes since Miocene, lithology, compn. of sediments, 84M/2174; *hole 504B*, first reference section over 1km through layer 2 of oceanic crust, 84M/3463; *sites 515* to *518*, cores, summary lithology, shipboard X-ray min., 84M/3465; *site 516*, basalts, $^{40}Ar/^{39}Ar$ age spectra, 84M/3626; *site 534*, post Callovian clay min. and inorganic geochem. stratigraphy, 84M/1338; *legs 64* and *65*, basalt, alteration of, 84M/2160; *leg 65*, metamorphic processes in sediments in contact with young oceanic crust, 84M/2150; recovered sediments, X-ray mineralogy, 84M/2151; basalts, geochem., 84M/2157; basalt, O isotope compn., 84M/2161; *sites 482–485*, basalts, lithology, petrography, mineralogy, 84M/2153; basalt, chem. variation, microprobe study, 84M/2154; *sites 482, 483, 485*, basalt, geochem., 84M/2155; geochem, *RE* element abundancies, 84M/2156; *sites 483, 483B*, basalts, min. chem., 84M/2159; *legs 67* and *84*, convergent-extensional margin, new type, example, 84M/4619; *leg 68 site 501*, and *leg 69 site 504*, basalts, alteration in, prelim. results, 84M/2178; *leg 69*, sediments, min., XRD study, 84M/2175; silicified Upper Miocene chalk, petr., geochem., 84M/2176; secondary silica phases, O-isotope compn., 84M/2177; saponite from layer 2 basalt, Mössbauer study, 84M/2183; *leg 69, 70*, basalt standards, interlaboratory comparison, 84M/2198; *legs 68, 69, 70, holes 501, 504B*, secondary minerals in basalt, 84M/2182; *legs 69, 70, hole 504B*, basalts, S content, S-isotopes, 84M/2188; basalts, H-, O-isotope compns., 84M/2189; Sr-, Pb-isotope compn., 84M/2190; basalt, tr. element geochem., 84M/2192; *sites 504,*

DSDP (*contd.*)
505, basalts, geochem., 84M/2195; *sites 501, 504, 505*, alteration minerals, chem., 84M/2181; evidence for compositionally nearly steady-state magma chamber, 84M/2197; *site 505*, Cr-spinels in basalt, 84M/2196; *leg 70*, sediments, min., geochem., 84M/2164; hydrothermal deposits, min., geochem., of major components, 84M/2165; hydrothermal and pelagic sediments, major, minor elements in, 84M/2167; basement basalts, petrography, chem., 84M/2170; fresh and altered basalts, geochem., min., 84M/2171; erupted basalts, geochem., 84M/2172; *legs 54 and 70*, basalts, S, S-isotope content, 84M/2173; *leg 70, hole 504B*, layer 2 basalts, alteration processes in, 84M/2179; anhydrite, occurrence, origin, 84M/2180; secondary K-feldspar in basalts, problem of K-feldspathization in oceanic basalts, 84M/2184; melanite and aegirine-augite, occurrences, 84M/2185; hydrothermal sulphides, S-isotope compn., 84M/2187; basalts, major, tr. element chem., alteration products, 84M/2194; *holes 504B, 505B*, basalts, sulphide petrology, 84M/2186; *holes 506, 506C, 507D*, green clay, sedimentology, min., geochem., 84M/2163; *holes 506, 509B*, sediments, partition geochem., 84M/2168; *sites 506–509*, sediments, chem. compn., 84M/2166; *sites 506–509* and *leg 54, site 424*, mound samples, U series disequilibrium, isotopes stratigraphy, attempt at chronology, 84M/2169; *leg 72, hole 516F*, basaltic rocks, petr., geochem., 84M/2893; tr. element geochem., 84M/2894; Palaeocene to Coniacian carbonates, tr. element and stable isotope geochem., comparison with Atlantic, Tethys sites, 84M/2977; cherts from sediments, 84M/3464; *leg 74*, basalts, major, tr. elements and Nd, Sr isotope geochem., 84M/4117; Late Cretaceous volcaniclastic rocks, 84M/4433; *sites 525, 527, 528*, rock petr., geochem., 84M/4432; *leg 76, site 533*, carbonate diagenesis of Pliocene/Pleistocene hemipelagic mud, min., geochem., 84M/2199; *leg 76, hole 534A*, basalts, petr., min., geochem., 84M/2200; *leg 87*, varied responses to subduction in forearcs, 84M/4434
DTA *v.* Differential thermal analysis
Dundasite, *England, Cornwall, Greystone quarry*, with hemimorphite, aurichalcite, 84M/2294
Dunes, *South Australia*, Quaternary calcareous, pedogenic calcrete in vadose zone, 84M/2222
Dunite, *Yugoslavia, Inner Dinarides ophiolite complex*, use as refractory, decorative stone, 84M/2139; *Japan, Sanbagawa belt* and *Kii Peninsula*, metamorphism of, 84M/1141; *Hokkaido, Horokanai ophiolite*, soda-tremolite-bearing, 84M/3144; *South Africa, Kimberley*, example of mantle metasomatism, 84M/4380; *Pacific Ocean, Loihi Seamount*, coexisting glass, olivine in xenoliths, noble gas systematics, 84M/3440
Duplexes, *France, Basse Normandie*, origin, 84M/1949
Dust, urban, tr. element speciation in, 84M/1522; England, urban, Cu, Cd, Pb, Zn in, nationwide survey, 84M/1517
Dykes, postmineral in apatite ore, *RE* element differentiation at outer contacts, 84M/4078; net-veined ring and mixed-magma types, origin, 84M/3328; Archaean, Proterozoic, implications for subcontinental mantle chem., 84M/1709; *Norway, Larvik, Lillevik complex*, geochem., tectonic implications for probable Caledonide ophiolite fragment, 84M/1715; *Sweden, Orust*, Rb/Sr isotopic equilibrium during Sveconorwegian deformation, metamorphism, 84M/3635; *England, Cornwall, Lizard complex*, in ophiolite, geol., geochem., 84M/3451; *USSR, south west Kola Peninsula*, intrusions, new data, 84M/3360; *Austria, Tauern Window area*, Alpine, K/Ar, Sr-isotope study, 84M/2341; *Caucasus Mtns.*, radiation effects, ages in granite porphyry, ident by Fe Mössbauer spectra, 84M/3629; *India, Tosham igneous complex*, ring dykes and assoc. rocks, geol., emplacement mechanism, 84M/3375; evidence for ring structures, cauldron subsidences 84M/3376; *Western Australia, Pilbara dist.*, clastic injected in accretionary lapilli beds, use in recognizing soft-sedimentary deformation, 84M/0904; *Canada, Newfoundland, Bay of Islands complex, North Arm massif*, sheeted, structure, 84M/1054; *USA, Columbia Plateau, Chief Joseph dyke swarm*, chem., min variations in 4 dykes, 84M/1013; *California, Long Valley caldera area*, intrusion as cause of earthquakes, evidence, 84M/3323; *Medicine Lake Highland volcano*, beneath silicic domes, structural evidence, 84M/1042; *Minnesota* and *Canada, Ontario*, Proterozoic mafic, geol., petr., 84M/1010; *Antarctica, Alexander Island*, sedimentary, in Mesozoic sediments, 84M/1101
—, alnöite, *Sweden, Alnön complex*, palaeomagnetic props., 84M/2287
—, basalt, *New Zealand, Mount Tarawera*, from 1886 rift, 84M/1034
—, basic, *India, Kerala, Agali area*, geochem., petrogenesis, 84M/1727; *Canada, north Labrador*, Archaean meta-basic, Nd, Sr isotopic crustal contamination patterns, 84M/4124
—, breccia, *Scotland, Inverness, Great Glen fault area*, 84M/3497
—, dolerite, *Norway, Rogaland*, secondary ilvaite in, anal., 84M/4224; *Western Gneiss region*, Rb/Sr study, 84M/0007; *Austria, Ötztal-Stubai complex*, Alpine metamorphism of, 84M/4489; *Egypt, Sinai*, ocellar, evidence from for immiscible silicate-carbonate liquids, 84M/2025
—, lamprophyre, *Canada, Ontario, McKellar Harbour area*, ultrabasic, Rb/Sr, K/Ar geochron., 84M/0043
—, neptunic, relation to hydrodynamic circulation of submarine hydrothermal systems, 84M/0644; *Bulgaria, Pleren dist., Kreta*, 'neptunian', in limestones, 84M/2211
—, pegmatite, *Canada, Ontario, Madawaska mines*, U-bearing, influence of metamorphosed gabbro in control, 84M/2937
—, porphyrite, *Scotland, Black Stockarton Moor complex*, geol., 84M/0957
—, sövite, *Sweden, Alnön complex*, palaeomagnetic props., 84M/2287
—, swarms and complexes, *Switzerland, Valais, Monts-Dolins region*, complex, evidence, 84M/1045; *Spain, Zarza la Mayor* to *Portugal, Oporto*, swarm, rock anals., geol., 84M/3351; *Portugal, Beja ophiolitic massif*, complexes, anals., 84M/3455; *Tibet, Dengqen County*, swarms in ophiolites, 84M/1050
Dypingite, props., observations, 84M/4277; *Japan, Gifu Pref., Naradani*, oolitic, X-ray DTA, TGA data, 84M/4584; *Kumamoto Pref., Mashiki town*, occurrence, X-ray data, 84M/4589
Dyscrasite, *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485

Earth, asteroid, comet bombardment, 84M/0753; hotspot swells, 84M/0900; tectonic behaviour of rocks inside, effect of environmental parameters on, 84M/0902; global compression/expansion epochs, link with folding/rifting epochs, new hypothesis, 84M/0951; origin, meteorite-based research, (book), 84M/1261; early geochem. evolution, primitive organic matter as main factor in, 84M/1804; primitive environments, organic syntheses and origin, early evolution of life, 84M/2786; volcanic eruption processes, comparison with planetary, 84M/3083; heat flow-heat production relations, effect of lateral deformation on, 84M/3579; mantle plumes and hotspots, comment, 84M/3609; reply, 84M/3610; crust-mantle evolution, implications from island arc Hf–Nd–Sr isotopes, 84M/4122; heat and He in, 84M/4294; epeirogenic uplift, possible mechanism, 84M/4297; convection in, relationships with the geoid and Pangea, 84M/4616; *Australia, Victoria, Bullenmerri* and *Gnotuk maars*, petr. of sub-continental crust-mantle transition, ultramafic xenolith evidence, 84M/3385
—, asthenosphere, decoupling from lithosphere at spreading centres, obduction initiation, 84M/3445; beneath oceanic spreading centres, rolling mill effect in, 84M/4425
—, atmosphere, flow of metals into global, criticism of previous paper, 84M/0329; tr. element speciation in, 84M/1522; photochem. of methane in early, 84M/2779; Precambrian atmospheric O and banded Fe formations, 84M/2781; oxygen, ozone in early, 84M/2785; evolution of photoautotrophy and early O levels, 84M/2787; early O levels, constraints from Archaean photoautotrophy, 84M/2788; *Canada, Ontario, Elliot Lake*, detn. of early Proterozoic O content, possible use of uraninite-bearing conglomerates, 84M/2774; S isotope abundancies, in clastic rocks, implications for coeval atmosphere, 84M/2775
—, crust, metamorphism of, fluid absence, 84M/0624; methane generation, rate and depth of, isotope data, 84M/0707; crustal deformation, mechanisms, 84M/0901; interactions with mantle, nature, stable isotope evidence, 84M/1702; formation, density constraints, 84M/2012; tectonic merging in oceans, 84M/2080; thinning near fracture zones, evidence, implications for ophiolites, 84M/2081; thickening of, relationship with strain rates, palaeomagnetism, finite strain, fault movements in deforming zone, 84M/2334; mobility of *RE*

Earth, crust (*contd.*)
elements, 84M/2811; geochem. cycles of water in, 84M/4159; *Norway, Lofoten—Vesterålen area*, study, 84M/2335; *south west England*, major reflectors beneath, 84M/3584; *Scotland*, MOIST and continuity of crustal reflector geometry along Caledonian-Appalachian orogen, 84M/3585; *Southern Uplands*, melting of, role in genesis of isotopically, chemically zoned plutons, 84M/1717; *Saudi Arabia, Jabal al Wask* and *Jabal Ess*, evolution, implications from ophiolite Sm/Nd data, 84M/3654; *India, Karnataka, Closepet*, evolution, implications from granite origin, 84M/4494; *south Tibet*, high heat flow, 84M/4550; *Canada, north-central Saskatchewan*, electrical conductivity, anomaly and its relation to Proterozoic plate margin, 84M/4548; *USA, Alaska, Edgecumbe volcanic field*, assimilation by basaltic magma, Sr-isotope, tr. element data, 84M/2918; *New York, Adirondacks, Indian Lake quadrangle*, evidence for metamorphic fluids in deep crust, 84M/3559; *Gulf of California*, accretion, intermediate rate spreading axis, 84M/2162
—, —, continental, abundance of Sn in, application of spark source mass spectrometry, 84M/0513; characterization of mantle-derived igneous rocks, isotope, geochem., element-geochem. criteria, 84M/0550; chem. modification of deep, role of CO_2, 84M/0626; regimes of, factors in formation of sedimentary ore deposits, 84M/2551; grouping of rocks into petrochem. system, evolution, 84M/2790; *RE* elements in basic/ultrabasic rocks, 84M/2809; intermediate, silicic rocks, ore petrogenesis, 84M/2810; exposed cross-sections through, implications for crustal structure, petr., evolution, discussion, 84M/3300; evolution, constraints from granulite Nd/Sr isotopic compn., 84M/4148; *Britain*, role in origin, evolution of Caledonian granites, O and Sr-isotopic evidence, 84M/1716; *Scotland, Loch Doon intrusion*, assimilation, partial melting of, evidence from autoliths, xenoliths, 84M/2258; *Greece, Milos* and *Santorini*, role in calc-alkaline volcanism, Sr-isotope, tr. element evidence, 84M/0561
—, —, oceanic, in Precambrian, Sr-isotope evidence, 84M/0512; alteration, geol. cycling of Cl, H_2O, 84M/2792; *Japan, Kii Peninsula*, subducting, depth of basalt-eclogite transition, seismological constraint, 84M/4556; *Chile*, formation of Phanerozoic, ophiolite evidence for role of spreading centre magma chambers, 84M/2119; *DSDP, hole 504B*, first reference section over 1km through layer 2, 84M/3463; *Atlantic Ocean, Irish continental shelf, Porcupine Bight*, relationship with continental structures, use of magnetic data, 84M/3612; *Pacific Ocean, Costa Rica rift, in situ* electrical resistivity, bulk porosity, 84M/3580
—, lithosphere, sub-continental, role in magma genesis at active continental margins, 84M/1710; phase transitions in, role in sea-floor flattening at old age, 84M/3299; continental, long-term thermomechanical props., 84M/3301; thermal anomalies, magmatism due to doubling and shifting, 84M/3334; decoupling from asthenosphere at spreading centres, obduction initiation, 84M/3445; oceanic, thermally activated creep, flexure, 84M/3593; what is it?, 84M/4295; *South Africa, Karoo*, evolution, evidence from volcanics, xenoliths, 84M/1705
—, mantle, primordial components, clues, isotope tracer studies, 84M/0508; isotopic evolution, mantle metasomatism, 84M/0509; metamorphism of, fluid absence, 84M/0624; xenoliths, and continental basalts, (book), 84M/1254; interactions with crust, nature, stable isotope evidence, 84M/1702; sub-continental, chem., inferences from Archaean, Proterozoic dykes and continental flood basalts, 84M/1709; generation of granitoid magma from, new data, 84M/2014; convecting, deep structure of ocean ridges in, 84M/2333; volatile components of mineral forming media, new data, 84M/2791; evolution of depleted, Pb perspective, 84M/2795; chem. structure, evolution, detn. by inversion of Nd, Sr isotope data, theoretical methods, 84M/2796; numerical expts., discussion, 84M/2797; rocks from upper, *RE* element abundancies, 84M/2807; redox state of upper from kimberlitic ilmenites, 84M/2820; layered structure, noble gas constraints on, 84M/2858; evolution, constraints from rare gas systematics, 84M/2913; Archaean, structure and komatiites, discussion on previous paper, 84M/3336; reservoirs and ocean island basalts, 84M/3442; layered convecting, viscosity structure, implications for plate tectonics, 84M/3608; effect of fluids on differentiation, 84M/3959; min., chem. of lower, implications from ultrahigh-*P* phase relations in system MgO–FeO–SiO_2, 84M/4014; heat production, K/U, K/Rb ratios, 84M/4095; micas from xenoliths, comparison with Ti-phlogopite from minette, 84M/4232; chem. stratification in, 84M/4293; *Germany, north Hessian depression*, upper mantle rocks from basalts, 84M/3311; *Saudi Arabia, Jabal al Wask* and *Jabal Ess*, evolution, implications from ophiolite Sm/Nd data, 84M/3654; *Australia, NSW, Southern Highlands province*, CO_2- and *LREE*-rich below, evidence from alkali magmas, mantle xenoliths, 84M/2908; *southern Africa* and *Solomon Islands*, intrinsic f_O, of megacryst ilmenite, implications, 84M/4383; *South Africa, Jagersfontein*, metasomatism in upper, implications from new titanates in kimberlite, 84M/2821; *eastern Canadian Shield*, Proterozoic, isotopic evidence for geochem. discontinuity in, 84M/2777; *western USA*, heterogeneity in, evidence from isotope geochem. of Cainozoic volcanic rocks, 84M/2947; *Nevada, Lunar Crater volcanic field*, f_{O_2}, indication from CO_2–CO fluid inclusions in complex xenolith, 84M/2945; *Marquesas* and *Australes Islands*, large heterogeneity beneath, 84M/4120
East Africa v. Africa
EAST CHINA SEA, metallic element enrichment and organoclay complexes in sediments, relationship, 84M/4177
East Germany v. Germany
Eclarite, structure, 84M/3840; *Austria, Salzburg, Bärenbad*, new sulphosalt, data, 84M/3233; formerly ident. as 'cosalite', 84M/3878
Eclogite, mantle, source of sodic carbonatites, alkalic magmas, 84M/2655; high-*T*, retrograde *P-T* trajectories, evidence from omphacite microstructures, 84M/3516; *Norway, Bjørkedalen peridotite*, petr., 84M/3518; *Sweden, Seve nappes*, high-*T*, omphacite in, petrofabrics, microstructures, 84M/3514; *USSR, Urals, Nerkaysuky complex*, min., 84M/3540; *France, Massif Central, Bas-Limousin*, amphibolitization of clinopyroxenes, plagioclases, 84M/3513; *Nantes area*, possible subducted oceanic crust included during Hercynian continent–continent collision, 84M/3515; *east* and *south Netherlands*, 'jade axes', petr., 84M/4615; *Germany, Schwarzwald*, retrograde transformation, 84M/3528; *Austria, Bohemian massif*, garnet-clinopyroxene rocks in granulite facies environment, petr., 84M/3519; *Czechoslovakia, Klippen belt*, pebbles in Cretaceous conglomerate, 84M/1129; *Japan, Kii Peninsula*, formation from basalt in subducting oceanic crust, seismological constraint on depth, 84M/4556; *South Africa, De Bruyn* and *Martin mine*, in kimberlite, anal., 84M/4382; *Jagersfontein*, xenoliths, texture, min., 84M/0989; *Canada, Yukon, Faro* and *Last Peak area*, record of subduction at ancient North American western margin, 84M/2273
Eggletonite, *USA, Arkansas, Big Rock quarry*, new mineral, props., 84M/1927
EGYPT, Phanerozoic mudrocks, marls, major changes in clay mineralogy, 84M/0122; clay ironstone bands/nodules in Dakhla shale formation, genesis, 84M/1088; Mesozoic-Cainozoic geol., outline, 84M/2068; *Egyptian Shield*, igneous rocks, Pb-isotope systematics, 84M/0021; *Aswan*, oolitic Fe-ores, deposition, 84M/0263; *Derhib*, polymetallic sulphide deposit, min., Pb-isotope studies, implications for Red Sea metallogenesis, 84M/4085; *Eastern Desert, south*, geochem. of ring complexes, 84M/0984; *Eastern Desert, El-Yatima*, granitic stock, petr., chem., genesis, 84M/2886; *Qena-Quseir area, RE* elements in metavolcanic rocks, 84M/4110; *El-Morgan oil field*, oil-bearing formations, petr. characteristics, 84M/1086; *Lake Qarun*, geochem. of saline minerals from, 84M/1744; *Red Sea coast*, Middle Miocene sediments, new data on stratigraphy, geochem., 84M/0603; Sinai, immiscible silicate-carbonate liquids, evidence from ocellar diabase dykes, 84M/2025; *southern Sinai*, origin of salts in groundwater, tracing by Sr-isotope compn., 84M/1777; *Abu Durba* to *Gebel Mezzazat*, tectonics, faulting, relation to Suez rift evolution, 84M/0938; *Wadi Kid area, P-T* conditions, implications for Pan-African event in SE Sinai, 84M/4481; *St John's (Zabargad) Island*, gem peridot, comparison with new Tanzanian material, 84M/0492; uplifted fragment of Red Sea lithosphere, 84M/0985; new geophys. model, implications for ultramafic rock emplacement in continental margin fracture zones, 84M/3586; *Southeastern Desert, Ha-*

EGYPT (*contd.*)
mash area, geochem. prospecting for Cu, 84M/3039; *northern Western Desert*, primary dolomites as oil reservoirs, occurrence, significance, 84M/1087; *Western Desert, El Gedida Fe ores*, discovery, origin, 84M/0284
Eifelite, *Germany, Bellerberg volcano*, new osumilite group mineral, 84M/0883; *USSR, Kola Peninsula, Khibiny pluton*, iron-, new variety, props., 84M/4276
Ekanite, gemmological props., ident., discovery, 84M/1647
Electrolytes, effect on CO_2 activity in supercritical aqueous solution, 84M/1548
Electron microprobe, Fe^{2+} and Fe^{3+} content estimation in rock minerals, possible method, 84M/0076; data precision, new test for mineral standards homogeneity, 84M/3067; for anal. of clay minerals, 84M/3713
Electron microscopy, use of backscattered electrons in shale petr., 84M/0064
Electron microscope, interstratified clay minerals, observations, high magnification lattice images, 84M/1275; for ident. of polytypes, stacking faults in tetrahedral compounds, 84M/1358; beam damage of topaz and other minerals, 84M/2725; microdiffraction in analytical EM, 84M/3674
—, scanning, examination of geol. samples with semiconductor backscattered-electron detector, discussion, 84M/1232; reply, 84M/1233
—, transmission, of selected minerals, illustrations, descriptions, 84M/0775; interlayering, interlayer slip in biotite, high-resolution study, 84M/1371; for study of Al-Si ordering in *Madagascan* orthoclase, 84M/2523; *Greenland, Ilimaussaq*, microcline from nepheline syenite, 84M/2524
Electron paramagnetic resonance, for detn. of hyperfine structure, dynamics of PO_3^{2-}, SO_3^- radicals in anhydrite, celestine, baryte, 84M/1395
Electron spectroscopy (ESCA), potential for bulk/surface characterization of kerogens, brown coal, gilsonite, 84M/0684; use in mineralogy, crystallography, mesolite example, 84M/1867
Electron spin resonance, detn. of Cu^{2+} hydration state in Cu^{2+}-hexadecylpyridinium montmorillonite, 84M/1314; in blue, green natural beryl, comment on previous paper, 84M/2281
Electrum, detn. of Ag content, non-destructive method, 84M/2680; *Greece, Macedonia, Koronuda*, grains in ore deposit, 84M/2595; *India, Kolar*, new locality, anal., 84M/3883
Elements, distrib. in rocks, interpretation of lognormal distrib., 84M/4066
—, trace, *in situ* microanal., techniques, examples, 84M/0077; partitioning, kinetic effects on, 84M/0378
—, transition, enthalpy of formation of solid compounds with chalcogens/halogens, prediction, 84M/0338
—, rare-earth, partitioning in diopside-melt system, kinetic effect, exptl., 84M/0371; distrib. in mins. of ultramafic alkalic rocks, 84M/0551; tr. amounts in Fe ores, separation, detn., 84M/1246; in accessory minerals, anal., by specimen isolated ion mass spectrometry (SIMS), 84M/2439; light, in apatite, detn. by XRF after anion exchange extraction, 84M/2440; chem. of minerals except silicates, (book), 84M/2452; geochem. of (book), 84M/2457; general geochem. props., abundancies, 84M/2803; mineralogy, 84M/2804; cosmochem., meteorite studies, 84M/2805; use in petrogenetic modelling, 84M/2806; abundancies in upper mantle rocks, 84M/2807; in ocean basin igneous rocks, characteristics, 84M/2808; in basic/ultrabasic rocks from continental crust, 84M/2809; in intermediate, silicic rocks, 84M/2810; mobility in Earth's crust, 84M/2811; aqueous, sedimentary geochem., 84M/2812; radiogenic decay of ^{147}Sm to ^{143}Nd, ^{176}Lu to ^{176}Hf, geol. applications, 84M/2813; economic importance, 84M/2814; anal. chem., 84M/2815; partition coefficients in common magmas, effect of *P*, 84M/2857; abundancies, distrib. patterns in hydrothermally altered basalts, 84M/3972; light, zoning in sphene, allanite during granitoid fractionation, 84M/4074; differentiation in apatite ore at outer contacts of postmineral dykes, 84M/4078; *west Greenland*, abundancies in Mesozoic undersaturated alkaline rocks, 84M/4102; *Isua*, content in Fe formation, 84M/2996; *England, Cornwall, Lizard complex*, content in rodingites, 84M/2993; *Scotland, Water of Luce* and *Luce Bay*, behaviour during mixing of river, sea-waters, 84M/4162; *India*, patterns in zircons from various geol. environments, 84M/2842; *China, eastern Hebei Prov.*, geochem. of granulite gneisses, tectonic implications, 84M/4153; *Japan arc*, lateral variation of pattern in basaltic magma, 84M/2905; *Egypt, Qena-Quseir area*, contents in metavolcanic rocks, 84M/4110; *USA, California, eastern Peninsular Ranges*, distrib. in granodiorite, petrogenetic implications, 84M/0593; *Atlantic Ocean, Walvis Ridge*, in basalts, geochem., 84M/2892; *Pacific Ocean*, near hydrothermal vents, 84M/3030; *East Pacific Rise, 13°N*, in hydrothermal vent field high-*T* solns., 84M/4091; *MANOP site H, 6·5°N, 93°W*, fluxes and geochem. budget, 84M/4144
ELLICE ISLANDS, stream, ground, soil, rain water, chem. compns., 84M/3031
EL SALVADOR, *Izalco volcano*, bannermanite, new mineral in fumaroles, 84M/0878; shcherbinaite, crystal chem., 84M/3202
Elyite, *Austria, Rauris Valley*, in Au tailings, 84M/3601
Enargite, *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254
Energy, resources, nuclear waste disposal, intro., 84M/0210
ENGLAND, metals in urban dusts, soils, nationwide survey, 84M/1517; Chalk, natural radioactivity, 84M/2966; crustal growth, Late Precambrian-Early Palaeozoic plate tectonic evolution, 84M/4314; reservoir characteristics of rocks beneath concealed uncomformities, effects of epidiagenesis on, 84M/4454; *eastern*, Pliocene sketal carbonates, temperate meteoric diagenesis, 84M/1069; *central*, diagenetic processes, mineralization in Triassic, 84M/1681; *central eastern*, bentonites in Chalk, relation to opening of NE Atlantic, 84M/3763; *south east*, volcanic ash in Eocene beds, stratigraphical significance, 84M/0961; *south west*, major crustal reflectors beneath, 84M/3584; granites, fluid inclusion petrography, potential in mineral exploration, 84M/1808; *Cornubian batholith*, Li-mica granites, textural evolution, 84M/3343; *Midlands*, Carboniferous volcanicity, 84M/3342; *East Midlands* and *Wessex Basin*, dissolved U in groundwaters from Triassic sandstones, U contents, $^{234}U/^{238}U$ activity ratios, 84M/3009
—, AVON, *Aust Cliff*, playa cycles in Mercia mudstone, 84M/4448; *Avonmouth*, soil, plant concentrations of Cd, Zn near smelter, 84M/1518
—, CORNWALL, kaolin, apparent charge heterogeneity, relation to 2:1 phyllosilicate content, 84M/1308; botryoidal goethite, high-resolution TEM study, 84M/4257; *south*, sedimentary mélange and assoc. deposits, stratigraphy, 84M/0923; *east Cornwall* and *west Devon*, geol., excursion guide, rept. of field meeting, 84M/1989; *Fal estuary*, sediments, artificial diagenesis expts., 84M/2703; early diagenetic sulphide mineralization, 84M/2967; *Fowey Consols mine*, rhabdophane, new anal., 84M/1883; *Gerrans Bay*, metasiltstone, $^{40}Ar/^{39}Ar$ age spectrum, 84M/3642; *Greystone quarry*, aurichalcite, hemimorphite, new locality for, 84M/2294; *Hingston Down quarry*, bertrandite, occurrence, 84M/3595; *Kennack*, gneiss, Rb/Sr isochron age, implications for Lizard complex age, 84M/3641; *Launceston*, Hercynian regional/contact metamorphism in Devonian, Carboniferous metasediments, 84M/1124; *Lizard complex*, new investigations, discussion of ophiolite model, 84M/2121; ophiolite complex and two phases of suboceanic deformation, 84M/2122; isotopic evolution, 84M/2871; basic rocks, geochem., comparisons, 84M/2872; rodingites, *RE* element content, origin, 84M/2993; mapping and interpretation, geochem. soil surveys as aid, 84M/3033; palaeomagnetism, 84M/3587; hot or cold emplacement?, 84M/3449; dykes in ophiolite, geol., geochem., 84M/3451; possible Lizard-derived material in underlying Meneage formation, 84M/3452; emplacement, bearing of structure of SW Cornwall on, 84M/3453; *Lizard complex, Traboe area*, borehole sections through hornblende schists, 84M/3450; *Megiliggar Rocks*, phosphate minerals, microprobe anals., 84M/1912; *Newporth beach*, phosgenite, new locality for, 84M/2295; *Perranporth-Pentewan line*, low-grade regional metamorphism across, 84M/3525; *St Austell area*, disseminated Sn-sulphides in granite, 84M/3211; kaolinite, H atom positions by neutron profile refinement, 84M/3732; *St. Austell granite*, origins of late-stage rocks, re-interpretation, 84M/3344; *Goonbarrow china clay pit*, sheeted vein Sn-W mineralization, greisenization, assoc. with economic kaolinization, 84M/1682; *St. Michael's Mount* and *Cligga Head*, Sn-bearing sulphides, anals., data, 84M/4260; *Scilly Isles area*, residual

ENGLAND, CORNWALL (*contd.*)
gravity field, geophys. interpretations, 84M/4555; *Tamar Valley*, normal soil Pb content, graphical estimation, 84M/0315
—, CUMBRIA, *Lake District*, celadonite-like mineral in weathered basalt, correspondence with aluminous glauconite, implications, 84M/1858; *Lake District, Central Fells*, volcanic rocks, geol. guide (book), 84M/3700
—, DERBYSHIRE, fluorite, use as internal pressure standard in high *P*, *T*, crystallography, 84M/0345; minerals, locality information, 84M/2290; phosgenite, matlockite, occurrences, literature review, min., geochem., 84M/2291; Carboniferous basalts, geochem., petrogenesis, 84M/2870; Dinantian extrusive activity, 84M/4407; *Cromford, Ball Eye quarry*, wulfenite, anglesite, native sulphur, occurrence, 84M/2292; *Ible sill*, dolerite wall rock within, hydrothermal alteration, 84M/4473; *Long Rake* and *Kenslow Farm*, soil gases used to detect buried ore deposits, effects of meteorological variables on, 84M/3034; *Matlock area*, Asbian, Brigantian limestones, revision of stratigraphy, 84M/1068; *Milltown*, sweetite, new mineral, data, 84M/3253; *Potluck sill*, petr., geochem., 84M/4367
—, DEVON, Tertiary lateritic weathering, Palaeogene continental environment, 84M/1070; *west Devon* and *east Cornwall*, geol., excursion guide, rept. of field meeting, 84M/1989; *Hemerdon*, detn. of Pb in W-bearing quartz fluid inclusions, application of method, comparisons, 84M/2369; W deposit, effects of meteorological variables on soil gases used to detect, 84M/3034; *Lydford*, Hercynian regional/contact metamorphism in Devonian, Carboniferous metasediments, 84M/1124; *Meldon*, Nb-Ta and other rare-element minerals in aplite, occurrence, 84M/4254; *Tamar Valley*, normal soil Pb content, graphical estimation, 84M/0315
—, DORSET, *Isle of Purbeck*, natural deformation in Chalk, example, 84M/4449
—, ESSEX, *Pitsea*, infiltration at landfill site, estimation, comparison of methods and implications, 84M/3942
—, HUMBERSIDE, *south Humberside*, Chalk lithostratigraphical studies, use of resistivity, γ-logging, 84M/4546
—, KENT, *Sandwich, Tollgate bore*, compositional variations in glauconite, 84M/1857
—, LEICESTERSHIRE, galena, occurrences from 1779, review, 84M/3594; *south*, diorite complex, possible extension, 84M/0959
—, LINCOLNSHIRE, Chalk lithostratigraphical studies, use of resistivity, γ-logging, 84M/4546
—, NORFOLK, *Great Yarmouth*, Ormsby borehole, details, log, 84M/0922
—, SHROPSHIRE, *Shelve inlier*, two new Ordovician volcanic centres, 84M/4408
—, SOMERSET, *north*, normal soil Pb content, graphical estimation, 84M/0315; *Cheddar, Batts Combe quarry*, wulfenite, new locality for, 84M/2293; *Weston-super-Mare area*, geol. of country around, memoir, 84M/4315
—, STAFFORDSHIRE, *Ecton Hill*, millerite, occurrence, 84M/2289
—, SUFFOLK, *Redgrave*, sand, gravel resources, 84M/0309; *Woodbridge/Felixstowe*, Crag Farm and Wantisden boreholes, logs, 84M/0922
—, SURREY, *Redhill*, montmorillonite, internal/external surfaces, 84M/0093
—, WEST MIDLANDS, *Birmingham*, Triassic sandstone aquifer, groundwater chem., relation to structure, 84M/0650; *Coventry, Villa Farm*, contaminant migration from underground lagoons, controls on, 84M/3940; *Knowle borehole*, coffinite in Mercia Mudstone group nodules, 84M/0755
—, YORKSHIRE, *north east coast*, pyritiferous carbonate concretions, pyrite texture, isotopic compn., Fe availability, 84M/0422; *Harrogate*, Crimple Beck borehole, log, 84M/0922; *Horton-in-Ribblesdale*, Palaeozoic sandstone/gritstone, resources, 84M/0294; *Settle*, Waters Farm borehole, log, 84M/0922; *Settle* and *Malham areas*, limestone, dolomite resources, 84M/0294; *Thirsk*, Felixkirk borehole, log, 84M/0922
Enthalpy, relative and calorimetric of silicate minerals, empirical prediction, 84M/0334; solid compounds of transition and noble metals with chalcogens/halogens, prediction of enthalpy of formation, 84M/0338; of almandine formation by high-*T* borate soln. calorimetry, 84M/0449; effects assoc. with Al/Si ordering in anhydrous Mg-cordierite, 84M/0452; of formation of synthetic cancrinite, 84M/0477; diopside, albite, sanidine, nepheline liquids and glasses, 84M/1559; synthetic orthopyroxenes on join $MgSiO_3$–$FeSiO_3$, 84M/2646; of formation for natrolite, mesolite, scolecite, 84M/2647
Eosphorite, *Germany, Hagendorf*, secondary, X-ray discrimination from childrenite, 84M/0877
Ephesite *v.* mica
Epidote, stability relations with Fe-pumpellyite, 84M/1611; *Germany, Bavaria, Acherwiese*, occurrence, 84M/3599; *Poland, Michalowice*, druses, formation conditions, 84M/4479; *Strzegom massif*, pegmatitic, fluid inclusion study, 84M/4369; *USA, California, Salime Valley*, occurrence, description, 84M/2316
–, -prehnite equilibria, petrologic applications, 84M/1618
Epistilbite, *USA, Hawaii*, occurrence, brief description, 84M/2315
Epitaxy, complex epitaxial rutile twins on hematite, symmetry, 84M/0827; magnetic liquid phase layers on Gd-Ga-garnet, backscattering anal., 84M/1234; structures, melting and solidification, 84M/2650; *Bulgaria, Mogilata Pb-Zn deposit*, quartz on calcite, cause of peculiar quartz morphologies, 84M/0806
EPR *v.*, Electron paramagnetic resonance
Epsomite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Spain*, in efflorescences in a Typic Salorthid, 84M/0866; *Alcázar de San Juan*, in saline sediments, 84M/2614; *Laguna de Tirez*, crystals at base of playa lake sequence, 84M/1074; *Japan*, in Cretaceous sedimentary rocks, 84M/4573
Eremeevite, gemmological props., ident., discovery, 84M/1647; *USSR, SW Pamirs*, prismatic crystals, props., genesis, 84M/0843
Erionite *v.* zeolites
Erlichmanite, *Cyprus, Kokkinorotsos mine*, iridian and ruthenian in chromitite grains, 84M/2074; *Sierra Leone* and *Borneo*, series to laurite, chem., reflectance, cell, 84M/0858
ESCA *v.* electron spectroscopy
Eskimoite, affiliations with heyrovskyite and aschamalmite, 84M/1924
ESR *v.* Electron spin resonance
Estuaries, removal of Fe-colloids, kinetics, 84M/0642; coagulation of dissolved $^{239,240}Pu$, mixing expt. results, 84M/2630; *England, Cornwall, Fal estuary*, sediments, artificial diagenesis expts., 84M/2703; early diagenetic sulphide mineralization in, 84M/2967; *New Zealand, Taieri Estuary*, mixing of dissolved Fe, Cu, Ni, Si, relation to colloid stability, surface props., 84M/0659; *Canada, St Lawrence*, forms of P and relations with Fe in suspended matter, 84M/3947; *St Lawrence Estuary, off Rimouski*, B content in sediments, 84M/2979
ETHIOPA, rift evolution, volcanotectonic aspects, 84M/0939; cement containing natural pozzolanic material, use, props. of concrete with, 84M/3923; flood basalt province, stratigraphy, petr., review, 84M/4378; *Addis Ababa*, dynamics of radioactive contaminants of air, prelim. study, 84M/0330; *Haro Majo*, explosion crater, geophys., geol., 84M/3424; *Hora Mirrga* (*Lake Langano*) *region*, recent crustal movement, geodetic measurement, 84M/1190; *Middle Awash dist., Cindery Tuff*, geochron., stratigraphy, geochem., 84M/3651; *Tulu Dimitri*, mafic/ultramafic complex, geochem. data, genetic significance, 84M/2882; *Tulu Dimtu Giorgis*, scoria, pozzolanic props., prelim. study, 84M/0300
Ettringite, crystal habit in cement pastes, 84M/0382; *South Africa, Kuruman*, crystals to 3″, new find 84M/4571
Euclase, high-*P* crystal structure, compressibility, 84M/4523; *Germany, Fichtelgebirge*, new deposit, description, 84M/2298
Eudialyte, magmatic crystallization in system nepheline-eudialyite, 84M/4012
—, -eucolite, *Norway, Langesund area*, with co-existing catapleiite, geochem., 84M/3133
EUROPE, fractionation of Zr, Hf in cassiterite, 84M/0825; Variscan fold belts, case study, (book), 84M/2453; Palaeozoic sedimentation in northern branch of Variscides, interpretation, 84M/3257; Variscides, geodynamic interpretation, 84M/3275; *central*, sedimentary deposits in Rhenohercynian belt, chem. compn., 84M/3265; crustal structure of Hercynian Mtn. system, model for thickening, stacking, 84M/3274; ^{18}O variations in shells of limnic gastropods/pelecypods, 84M/4163; *western*, Permian rocks, general geol., 84M/1457; *central Caspian region*, dispersed organic matter in Jurassic deposits, catagenic transformation, 84M/4176

Europium, distrib. in ilmenite from various igneous rocks, 84M/1667; traces in silicate matrix, behaviour in AAS with electrothermal atomisation, 84M/2431; impurities in fluorite, EPR, NAA study, 84M/4081; redox equilibria in aqueous soln., 84M/4161
—, anomalies, *Canada, Quebec, Mount Laurier*, in granite, pegmatite *RE* element spectra, significance, 84M/0584
—, compounds, EuO, thermal expansion data, 84M/4536; Eu_2Sb_3, structure, 84M/3841
Evaporites, variation in δD, $\delta^{18}O$ in deposits, 84M/3297; sulphate, assocn. with stromatolitic carbonates, glacial sediments, comparison of Australian, Antarctic, 84M/3490; *south Poland*, geochem., new Br/Cl ratio detn., 84M/1750; *United Kingdom*, in Upper Permian, isotopic evidence for mineralization by bacterial reduction, 84M/2835; *Spain, Toledo, Tajo basin*, sedimentation, cyclical character, 84M/3475; *Canada, Great Slave Lake, East Arm*, Lower Proterozoic, 84M/2582; *Mexico, Oaxaca*, Precambrian, in granulite complex, evidence, 84M/4343
Extrusive rocks, distrib. of elements in, descriptive mathematical models for, 84M/1711; from same system, geochem. integral, unique, 84M/1713; *Western Australia, Golden Grove Cu–Zn deposit*, effects of metasomatism, development of quartz 'eyes', 84M/1498

Faeroe Islands v. Denmark
Falkmanite, *Germany, Bayerland mine*, new data, re-examination of type material, relationship to Pb-sulphantimonates, 84M/0859
Famatinite, *Germany, Clara mine*, occurrence, paragenesis, 84M/4562
Farringtonite, in Zaisho pallasite, 84M/3108
Fatty acids *v.* hydrocarbons
Faujasite *v.* zeolites
Fayalite *v.* olivine
Fedorite, crystal structure, 84M/1386
Feldspars, incongruent dissolution, mechanics and kinetics, 84M/0470; contamination in aqueous fluid inclusions, effect on anal. by decrepitation-ICP method, 84M/1248; structure, effects of *T*, *P* on, 84M/1346; *north west Ireland*, fracture-controlled shape fabrics in deformed granite, 84M/4366; *USSR, Transbaikal, Bartoy River*, K–Na–, unusual exsolution textures, phase transition sequence, 84M/4240; *Canada, Alberta, Cold Lake*, in Clearwater formation oil-bearing sandstones, compn., 84M/3493; *Ontario, Meggisi Lake granite*, Archaean metastable, 84M/1861
—, adularia, *Italy, Tuscany, Alpi Apuane area*, new find, 84M/4566; *USA, Ohio, Green Twp.*, neoformed Palaeozoic, ident., age, 84M/0049
—, albite, liquid and glass, heats of fusion, enthalpies, 84M/1559; water-bearing glasses, Raman study, 84M/2528; phase relations with increasing pH, *T*, Na ion concentration, 84M/2754; *Poland, Karkonsze* and *Strzegom granites*, in pegmatite, genesis, crystallization conditions, 84M/4242; *Michalowice*, druses, formation conditions, 84M/4479; *Japan, central Shikoku*, porphyroblast from Sanbagawa schists, zonal structure, 84M/0802; *USA, New Hampshire, Government Pit*, occurrence, brief description, 84M/2315; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Virginia, Herbb no. 2 pegmatite*, occurrence, 84M/1636
—, alkali, 'diagonal association' in, 84M/0177; inter-diffusion of K, Na, diffusion couple expts., 84M/2662; exsolution mechanisms in, 84M/3173; exchange equilibria with fluoride bearing fluids, 84M/4029; *Austria, Steiermark, Koralpe*, perthitic in gneiss, 84M/3531
—, anorthite, system with diopside, viscosity-*T* relationships at 1 atm., 84M/1563; system with diopside, crystallization kinetics, nucleation delay, 84M/1564; crystalline and glassy, Raman study, 84M/2527; thermodynamics of melting, glass transitions, props. of amorphous phases, 84M/4010
—, anorthoclase, *Japan*, spherulites in devitrified rhyolite glass, EM study, 84M/3177
—, celsian, *Japan, Tokyo Pref., Shiromaru mine*, in Mn-ore, 84M/4603
—, cleavelandite, *Poland, Michalowice*, druses, formation conditions, 84M/4479; *Strzegom massif*, pegmatitic, fluid inclusion study, 84M/4369
—, cryptoperthite, angle σ in pericline twinned Na-phase (moonstone), TEM study, 84M/0178
—, hyalophane, *New Zealand*, occurrences, brief descriptions, 84M/2315
—, labradorite, dissolution at pH 4, near-standard *T*, *P*, 84M/4005
—, microcline, thermal props. at high-*T*, 84M/1167; dissolution at pH 4, near-standard *T*, *P*, 84M/4005; *Greenland, Ilimaussaq*, from nepheline syenite, TEM study, 84M/2524; *USA, California, San Joaquin basin*, detrital, $^{40}Ar/^{39}Ar$ spectrum anal., use in basin thermal evolution detn., 84M/1226; *New Hampshire, Government Pit*, occurrence, brief description, 84M/2315; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Virginia, Herbb no. 2 pegmatite*, occurrence, 84M/1636
—, microcline-perthite, from pegmatites, EPR study of new paramagnetic centres, comment on previous paper, 84M/2283
—, orthoclase, *Italy, Baveno*, locality for some of finest crystals, description, 84M/2310; *Madagascar*, Al–Si ordering, quantitative study by analytical TEM, 84M/2523
—, perthite, nucleation on perthite-perthite boundaries, 84M/3173
—, plagioclase, ordered/disordered from An_0–An_{93} series, bacterial breakdown, 84M/0361; zoning in, anal., exptl. study, 84M/0472; zoned porphyroblast in mylonite, growth, 84M/0803; Verzasca, compn., correction to published data, 84M/1376; melting kinetics, 84M/2746; sinusoidal (rhythmic) zoned crystals, formation, 84M/2748; simultaneous detn. of compn., structural state, X-ray powder method, 84M/3178; oligoclase, exposure to shock waves, planar elements in, 84M/3961; intermediate, $C\bar{1} \rightleftharpoons I\bar{1}$ transformation, thermodynamics, exptl. delineation, 84M/4031; *Poland, Zalas*, albitization in Permian porphyries, 84M/0804; *Spain, Sierra Alhamilla*, porphyroblast growth, relation to deformation, 84M/2262; *Greece*, in ophiolites, metasomatic transformation during spilitization, 84M/2099; *south Bulgaria*, from granites, Fe distrib. in, 84M/0801; *India, Andhra Pradesh, Chimalpahad complex*, from anorthosite, anals., petr., 84M/3179; *Japan, Kagoshima Pref., Katadomari*, in andesite flow, effects of crystal growth rate on compn., 84M/1000
—, potassium-, source-rock-controlled variation in detrital, detection by opt., X-ray, evaluation of method, 84M/1103; tr. element distrib., criterion for assessing rare-metal pegmatites, 84M/1665; monoclinic, crystal morphology, emphasis on periodic bond chain theory, 84M/2525; HF- and HF/H_2SO_4-treated, surface study by Auger electron spectroscopy, 84M/2745; synthesis from natural clinoptilolite, 84M/4030; megacrysts in granitoid rocks, Ba as indicator of geochem. zoning, 84M/4239; *France, Massif Central, Millevaches*, successive generations in leucogranites, 84M/4228; *Portugal, Caramulo, Guardão region*, from granitic rocks, petr., XRD powder patterns, 84M/3174; 2V angle and structure, relationship, 84M/3175; triclinicity and ordering indexes, correlation, 84M/3176; *West Carpathians*, triclinicity of, use of IR spectroscopy in detn., 84M/0800; *Japan, Hida metamorphic belt*, from schists, gneisses, obliquity of, 84M/1860; *Pacific Ocean, Costa Rica rift*, secondary in basalt, problem of K-feldspathization in oceanic basalts, 84M/2184
—, sanidine, liquid and glass, heats of fusion, enthalpies, 84M/1559; high-, structural morphology, 84M/2526
Feldspar-quartz intergrowths, simultaneous crystallization from granitic magmas, 84M/0805
Feldspathization, *Turkey, Avnik area*, metamorphic, of metavolcanics, granitoids, 84M/2263
Felsite, *Scotland, Isle of Eigg*, age, origin, isotopic evidence, 84M/0014
Fenestrae, in lime mudstones, re-evaluation, 84M/1061
Fenite, *Norway, Finnmark*, ultrabasic assoc. with Pollen carbonatite, geol., geochem., origin, 84M/0617; *Scotland, Inverness, Great Glen fault area*, 84M/3497; *Kenya, Kisingiri*, metasomatism of, role of speciation in alkaline igneous fluids, 84M/0620
Fergusonite, *USSR, Ukraine, Novopoltavskiy pluton*, Ce-, in carbonatite veins, 84M/0817; *Japan, Ehime Pref., Mt. Ooto*, occurrence, X-ray data, 84M/4578; *Kyoto Pref., Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *Shikoku, Takanawa Peninsula*, pegmatite occurrence, 84M/4574
β-fergusonite (Nd), *China, Bayan Obo*, occurrence, props., 84M/0840
Ferrates, $GdFeO_3$-type perovskite, crystal chem., 84M/2538
Ferricrete, *West Africa*, 'cuirasse', epochs of formation, 84M/0601
Ferrierite *v.* zeolites
Ferrihydrite, transformation to hematite in soln. at 92°C, detailed study, 84M/2693; in pyrophosphate extracts of podzol B hori-

Ferrihydrite (*contd.*)
zons, 84M/3702; formation of goethite, hematite from, effect of pH, 84M/3990
Ferrinatrite, *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568
'Ferriphlogopite' *v.* mica, phlogopite
Ferritungstite, *Bulgaria*, *Grânčarica deposit*, first Bulgarian occurrence, data, 84M/0842
Ferroaxinite *v.* axinite
Ferro-chrome, spectrophotometric detn. of Cr in, 84M/2420
Ferromagnesian minerals, diagrams of correspondence of phys. props., 84M/3161
Ferromanganese deposits, Recent, from mid-ocean ridge, analogue in Greek Mesozoic metalliferous sediments from ophiolites, 84M/2849
—, ore, formation processes in Recent basins, sorption of Fe(II) by MnO_2 from seawater with organic complexing agent, 84M/2672
Ferronickelplatinum, *USSR*, *Koryak-Kamchatska fold region*, new mineral, props., 84M/1928
Ferrosilicon, *South Africa*, *Fairview mine*, Au-bearing in mine dump, 84M/0283
Ferrosilite, ferrosilite III, high resolution EM studies, 84M/0454; *Algeria*, *Gour Oumelalan region*, ortho-, and assoc. rocks, 84M/0779
Ferrostrunzite, *USA*, *New Jersey*, *Mullica Hill*, new mineral, data, 84M/3234
Fibroferrite, *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568
FIJI, stratigraphic names, revision of spelling, 84M/4622; *Vanua Vatu* and *Tuvuca Is.*, *Lau group*, U disequilibrium dating of phosphate deposits, 84M/3666
FINLAND, mineral deposits, annotated bibliog., (book), 84M/3692; *east*, Archaean granodioritic rocks, major and tr. element geochem. and crustal evolution, 84M/2999; late Archaean volcanic, plutonic rocks, Rb/Sr ages, isotopic geochem., 84M/3637; *north*, biotites from granites, major element geochem., origin, metallogenetical aspects, 84M/3157; *south*, polyphase deformed migmatites in Svecokarelides, U/Pb, Rb/Sr studies, 84M/1769; *Kemiö Island*, Svecofenian-mantled gneiss dome, evolution, evidence for thrusting, 84M/3521; *Koillismaa layered complex*, use of electron microprobe in study, 84M/4353; *Lapland*, aluminous orthopyroxenes, Mössbauer line broadening, evidence for next nearest neighbours interactions, short-range order, 84M/2516; mafic granulites, isotopic data, 84M/3636; gemstone deposits, descriptions, 84M/4055; *central Lapland*, mineral resource potential, evolution, statistical anal. of geol., geochem., geophys. data, 84M/3874; *North Karelia*, *Petäineu area*, metal content, min. compn. of glacial till and stream sediment, effect of Outokumpu area rocks, 84M/0671; *Sottunga*, syn- and post Svecokarelian granitoids, age differences between Rb/Sr whole rock, U-Pb zircon ages, 84M/3638; *Suomussalmi—Kuhmo region*, Archaean granodioritic gneisses, Rb/Sr, Sm/Nd ages, isotope geochem., 84M/0012
Fission tracks, for detn. of U in natural waters, method, 84M/0665; *South Africa*, *Kaapvaal craton*, ^{235}U, means of studying recent U mobilization in Archaean pyritic conglomerates, 84M/2783
—, dating *v.* age determination
Fizelyite, *USSR*, first USSR occurrence, props., 84M/4265; *Czechoslovakia*, *Třebsko deposit*, with andorite, miargyrite in ores, anals., 84M/0856
Florencite, *Zaïre*, with kyanite, aluminian serpentine in hydrothermal assemblages, petrogenesis, 84M/1856
Fluid inclusions, in high-grade anatectic metamorphites, 84M/1117; anals. of aqueous by decrepitation-ICP method, effects of feldspar/mica contamination, 84M/1248; in minerals, advances in study of, 84M/2368; detn. of Pb in by voltammetric trace anal., 84M/2369; thermally, mechanically induced shape changes in, synthetic quartz, calcite examples, 84M/3956; stretching of in fluorite, sphalerite at 1 atm, systematics, 84M/3958; *Poland*, *Strzegom massif*, crystallization of low- and moderate-*T* min. parageneses, phys., chem. conditions, 84M/4369; *south west England*, in granites, potential in mineral exploration, 84M/1808; *Ireland*, *Connemara*, in high-grade metamorphic rocks, 84M/1774; *Co. Tipperary*, *Silvermines*, data from base-metal-baryte deposits, 84M/1437; *Belgium*, *Poppelsberg*, in calcite from Pb/Zn mineralized area, 84M/1809; *France*, *Alps*, hydrocarbons in metamorphic minerals, 84M/4488; *Massif Central*, *Brioude-Massiac dist.*, study of Sn–W–Au, Sb and Pb–Zn mineralizations, 84M/3875; *Germany*, *Eifel*, *Wehr volcano*, in corundum from contact metamorphic xenolith, 84M/3192; *Austria*, *Tauern Window*, in Alpine min. veins, 84M/4074; *China*, *Guangxi*, in rock crystal, 84M/1690; *Himalayas*, of quartz-kyanite segregation in thrust zone, 84M/0638; *Korea*, *Weolag W–Mo deposit*, metamorphic, ore-forming events, fluid histories, 84M/4088; *Australia*, *NSW*, *New England*, Sn-mineralized granite, ore formation, 84M/1502; *Northern Territory*, *Rum Jungle*, control of *T* on magnesite morphology, 84M/3220; *Namibia*, *Damara orogen*, and genetic aspects, 84M/3280; *South Africa*, *Witwatersrand*, in pyrite, implications for metamorphism, 84M/0844; *Canada*, *North West Territories*, *Pine Point*, $^{87}Sr/^{86}Sr$ measurements, increase accompanying mineralization, 84M/2837; *Quebec*, *Mines Gaspé*, ore-forming fluids in carbonate-hosted porphyry Cu deposit, compn., origin, 84M/0545; *USA*, *Nevada*, *Lunar Crater volcanic feld*, CO_2–CO in composite xenolith, indication of upper mantle f_{O_2}, 84M/2945; *Tennessee*, *Mascot-Jefferson City Zn dist.*, evidence for fluid mixing, 84M/2585; *Mexico*, *Guadalcazar granite*, in quartz, high Ag content, 84M/0534; *North Sea*, *Moray Firth*, *Beatrice oilfield*, use in dating diagenesis in petroleum basin, new method, 84M/3640
Fluids, convection in variable viscosity, Newtonian *vs.* power-law rheology, 84M/2668
Fluocerite, *Japan*, *Kyoto Pref.*, *Isanago mine*, occurrence, morphology, X-ray data, 84M/4592
Fluorescence, synthetic hydrothermal scheelites, 84M/0419; gemmological, X-ray unit for seeing, 84M/2773
Fluorides, LaF_3, crystal structure, 84M/1407
Fluoride, *Peru*, *continental margin*, pore-water fluoride in sediments, 84M/2991
—, -bearing fluids, exchange equilibria with alkali feldspar, 84M/4029
Fluorine, content in reference rocks, compilation of USGS reference sample values, 84M/0716; in geol. samples, anal. by nuclear method, 84M/1249; future in USA and World economy, (book), 84M/1256; role in granitic melt generation, 84M/1555; chromatographic detn. in geol. samples, 84M/2425; distrib. patterns in apobasic alkali metal bearing metasomatites, 84M/2995; *China*, *Bao Tou area*, hypergenic geochem., 84M/4167; *Nigeria*, *Afu Younger granite complex*, content and behaviour in granitic rocks, 84M/0572
Fluorination, stepwise, use in isotopic anal. of hydrous minerals, 84M/3064
Fluorite, green gem quality, description, 84M/0498; use of ashes to cure poisoning, 84M/1527; stretching of fluid inclusions in at 1 atm., 84M/3958; *USSR*, *south east Pamirs*, as metallogenic Sn-ore indicator, 84M/0533; *Poland*, *Michalowice*, druses, formation conditions, 84M/4479; *Strzegom massif.* pegmatitic, fluid inclusion study, 84M/4369; *Derbyshire*, use as internal pressure standard in high *P*, *T*, crystallography, 84M/0345; *Austria*, *Styria*, *Laussa*, small occurrences, min., chem., 84M/3226; *India*, *Gujarat*, *Amba Dongar mine*, thermoluminescence glow peaks. 84M/3574; *Canada*, *North West Territories*, *Vulcan prospect*, massive, geol., 84M/3927; *USA*, *Colorado*, *Canon City*, botryoidal, occurrence, description, 84M/2316; *Illinois*, *Denton mine*, occurrence, description, 84M/2316; *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *Mexico*, *Querétaro*, possible inclusions in opal, 84M/0489
—, deposits, Gd, Ce, Eu impurities in, EPR and NAA study, 84M/4081; *Italy*, *Sardinia*, Y, La, Mn geochem. in, 84M/0532
Flysch, Rhenohercynian, min. compn., tectonic significance, 84M/3263; sedimentation, relations to tectonism in European Variscides, 84M/3269; *Poland*, *Carpathians*, manganiferous carbonate micronodules in, origin, 84M/3477; *Channel Islands*, *Jersey*, *St. Ouen's Bay*, Jersey shale formation, structure, tectonic evolution, 84M/0924; *Germany*, *Harz Mtns.*, 84M/3262; *Rheinische Schiefengebirge*, Carboniferous, depositional models, 84M/3261; *Italy*, *Sicily*, *Peloritani Mtns.*, *Monte Soro*, structural geol., petr., 84M/1127
Foraminifera, planktonic, exptl. palaeotemperature equation from, 84M/0517; *Pacific Ocean*, benthic, use of ^{13}C records in Miocene stratigraphical correlation, 84M/2962; *Panama Basin*, Mn-carbonate overgrowths on tests, 84M/2960; isotopic compn. of planktonic, seasonal changes in, 84M/2986; planktonic, seasonal changes in flux, 84M/2987
Formates, $Ba(HCOO)_2$, crystal structure, 84M/2550

Forsterite *v.* olivine
Fossils, carefully curated, description, 84M/0498; Pleistocene pelecypods, AAS anals of Ca, Mg, Sr, Mn, Zn, Na, K in, differences between melanic/normal shells, 84M/1745; stromatolites, definitions, discussion, new proposed definition, 84M/2203; gastropods and bivalves, detn. of Ca, Mg, Sr, Mn, Zn, Na, K contents, comparison with living examples, 84M/2838; fish, O-isotope variations in phosphate of bone apatite, 84M/2839; scleractinian corals, C, O isotope fractionation in, 84M/4139; *Scotland, Ballantrae ophiolite complex*, graptolites, faunas, structural implications, 84M/2066; *Switzerland*, turtles, in Solothurn limestone, 84M/0927; *Persian Gulf*, molluscs, from uplifted Holocene beaches, Th/U dating, 84M/2345; *India, Bhima basin*, problematic Late Precambrian *Chuaria*, significance, 84M/4620; *Son Valley area, Kheinjua formation*, microbial, 84M/3617; *China, Yunnan, Jinning*, micro-, Sinian, 84M/4461; *Western Australia*, filamentous bacteria from Archaean, 84M/2338; *Western Australia, North Pole*, bacteria, possible fossils in Archaean stromatolites, 84M/4463; *New Zealand, Aorangi mine area*, graptolites, faunas in Ordovician rocks, geol., 84M/1098; *South Auckland*, Oligocene giant oysters, taxonomic status, isotopic evidence for palaeoenvironments, 84M/1740; *Canada, Newfoundland, Indian Bay Big Pond*, first fossiliferous volcanogenic rocks, regional significance, 84M/4335; *USA, eastern Kentucky*, Lower Pennsylvanian fauna, min., chem., diagenetic, palaeoenvironmental anal., 84M/0611; *Montana, Glacier Natl. Park*, stromatolites in Middle Proterozoic Belt supergroup, 84M/2226; stromatolites, in shallowing-upward cycles, 84M/4468; *Barbados*, corals, U, Sr, Mg content of Holocene/Pleistocene, 84M/0614; *Mexico, Baja California, Laguna Figueroa*, modern distinctive microbial structures, implications for pre-Phanerozoic fossil record, 84M/2229; fine structure, *in situ* study methods, 84M/2230; *Antarctica, North Victoria Land*, Cambrian, Ordovician conodonts, tectonic significance, 84M/4621;
Fracture and fracture zones *v.* rock deformation
Fraipontite, *USA, Arizona, Defiance—Silver Bill mines*, cuprian, with sauconite, occurrence, props., 84M/1859
Framboids, formation mechanism illustrated by volcanic exhalative sediment, discussion on previous paper, 84M/1893; reply, role of bacteria, 84M/1894
FRANCE, Cainozoic melilitites, isotope and tr. element evidence for alkali basalt to kimberlite transition, 84M/0556; rift development, chronology, petrology, assoc. volcanism, 84M/0925; *south*, minerals in bauxite deposits, comparison with synthetic Al, Fe-oxide, hydroxide, oxyhydroxide, 84M/3989; *Armorican Massif*, recovery of rutile, zircon from sands, method, 84M/2609; *Allier, Lombre* and *Hérault, Lodeve*, U deposits, excursion details, maps, 84M/1457; *Alps*, planar, linear fabrics in shales, slates, development, mineralogical control, 84M/4316; hydrocarbon inclusions in metamorphic minerals, texture, 84M/4488; *Aquitaine*, Triassic rocks, structural, sedimentary reinterpretation, 84M/1071; *western Ariège*, mineralogical guide, 84M/3596; *Ariège, Bestiac*, spinel lherzolites and assoc. garnet pyroxenites, 84M/3350; *Aveyron, Brousse—Broquies basin*, U in albitite, descriptions, example, 84M/0223; *Boulonnais, Basse Normandie duplex*, origin, 84M/1949; *Brittany*, chloritoid-pyrophyllite-rectorite facies rocks, 84M/2259; *Brittany, Chatelaudren metagabbro*, strain geometry, microstructure, min. chem in shear zones, softening mechanisms in progressive mylonitization, 84M/3527; *Lorient-Concarneau area*, uni- and divariant equilibria in medium-*P* meta-acidites, 84M/1125; *Presqu'ile de Rhuys*, migmatites, petrogenesis, 84M/2245; *Vendée*, clay minerals in hydrothermal U deposits, 84M/2488; *Vendée* and *Margeride*, potassic alteration in hydrothermal U-deposits, 84M/1686; *Canonnettes*, Fe-kaolinites and Fe-, Al-oxy-hydroxides in bauxitic profile, min. anal., 84M/3758; *Cantal volcano*, pyroxenes from agpaitic phonolites, crystallization trends, 84M/1840; *Charentes*, kaolinite deposits, geol., min., 84M/2476; *Crouzille area, Margnac*, U deposits, mine and quarry details, excursion guide, 84M/1458; *Haute Pyrénées, Pierrefitte-Nestalas*, mineralization in volcano-sedimentary sequence, 84M/1456; *Haut Rhin, Sainte-Marie-aux-Mines*, dervillite, re-examination of holotype, new formula, data, 84M/3215; *Lake Geneva* [*Lac Leman*], sum of DDT, PCB's, HCB in sediments, 84M/3945; *Les Oudots*, autunite, occurrence, 84M/2296; *Limousin area*, U deposits, excursion details, 84M/1458; *Lozère*, granite, geol. context with Massif Central, 84M/1720; *Massif Central*, lavas and constituent amphiboles, $^{87}Sr/^{86}Sr$ ratios, petrogenetic/geochem. problems, 84M/1719; finite strain, detn. in gneiss, application of Fry's method, 84M/1959; alkali basalts, Nd/Sr isotope and *RE* element geochem., 84M/4105; *southern Massif Central*, clay minerals in hydrothermal U deposits, 84M/2488; *Massif Central, Bas-Limonsin*, eclogites, amphibolitization of clinopyroxenes, plagioclases, 84M/3513; *Massif Central, Brioude-Massiac dist.*, Sn–W–Au, Sb and Pb–Zn mineralizations, fluid inclusion studies, 84M/3875; *Millevaches*, successive generations of muscovite, K-feldspar in leucogranites, 84M/4228; *East Rouergue*, high-*P* thermal aureole, staurolite-producing reactions, geothermobarometry, 84M/4475; *Massif Central* and *Languedoc*, sulphide inclusions/grains in spinel lherzolite xenoliths, 84M/3208; *Montagne Noire, Pardailhan nappe*, strain distrib., structure of basal thrust zone, implications for events during nappe emplacement, 84M/1974; *Nantes area*, eclogites, possible subducted oceanic crust, included during Hercynian continent-continent collision, 84M/3515; *Paris Basin*, interstratified kaolinite/smectites, correlations of layer proportions, chem. compns., 84M/1262; *Puy-de-Dôme, Chaméane*, chameanite, geffroyite, giraudite, new minerals, data, 84M/3230; *Rhône, Sibert*, argillic hydrothermal alteration of Cu–Mo-bearing porphyry, 84M/2490; *Sibert porphyry deposit*, phyllic alteration superimposed on potassic alteration, petr., 84M/3498; *River Garonne* and *Gironde Estuary*, Cd, Cu, Zn adsorption on solid hydrous oxides, application of model, 84M/2632; *River Meuse*, Cd, Cu, Pb, Ni, Zn adsorption on solid hydrous oxides, application of model, 84M/2632; *Saint Prix, Argentolle mine*, macphersonite, new mineral, data, 84M/3243; *Velay*, behaviour of trace-, major-elements in alkaline rocks, comparison with Puys area, 84M/1721; *Vosges, Ballons massif*, cumulates in gabbro-dioritic orthocumulates, min., petr., evidence for sialic contamination of magma, 84M/0962
Francevillite-curienite series, *Germany, north Bavaria*, undetermined mineral with baryte in U-bearing silicified wood, 84M/1460
Franckeite, *Bolivia* and *USSR*, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216
Francolite *v.* apatite
Fransoletite, *USA, South Dakota, Tip Top pegmatite*, new phosphate mineral, data, 84M/3235
Freibergite, *Greece, Macedonia, Koronuda*, in ore deposit, 84M/2595
Freudenbergite, possible use in containing radioactive Cs, 84M/0324
Fuchsite *v.* mica
Fulgurites, *Switzerland, Mt. Hahnenstock*, from summit, anals., 84M/3501
Fulvic acid *v.* acids

Gabbro, ilmenite from, geochem. features, 84M/0826; thermal props. at high-*T*, 84M-1167; spreading centre, small Soret effect in, 84M/3444; *Norway, Sulitjelma, T, P* estimates in contact aureole, implications for ophiolite origin, 84M/2126; *USSR, Komandor Islands*, geol., new data, 84M/2024; *Portugal, Pazes*, sill-like intrusion, anals., comparison with Beja gabbros, 84M/3456; *Mongolia, Bayan Obo, RE* element content, 84M/1728; *Papua New Guinea, Marum ophiolite complex*, geochem., 84M/0578; *Port Moresby*, layered, exposures, geol. excursion guide details, 84M/0944; *Canada, Ontario, Madawaska mines*, metamorphosed, influence in control of U-bearing pegmatite dykes, 84M/2937; *USA, Alaska, Fairweather Range, La Perouse*, structure, petr., 84M/2038; *Colorado, Stony Mtn. complex*, cooling history, O-isotope depletion patterns, 84M/1736; *Hawaii, Kauai*, highly oxidied ferrian alkali, and mantle xenoliths, 84M/4415; *Minnesota* and *Canada, Ontario*, Proterozoic dykes, geol., petr., 84M/1010; *Oregon, Coast Range*, sill, differentiation by crystallization-zone settling, 84M/1012; *Texas, Christmas Mtns.*, metasomatism duration in contact halo, quasi steady-state model for, 84M/1112; *Chile, Buena Esperanza Cu mine*, geol., geochem., 84M/2605; *Tocopilla area, Costal Range*, in Jurassic volcanic complex, geochem., 84M/2957; *Ascension Island*, inclusions in lavas, petr., 84M/2060; *Caribbean Sea, Mid Cayman Rise*,

Gabbro (*contd.*)
submarine metamorphism, O-isotope study, 84M/0622; submarine metamorphism, petr., min. constraints on hydrothermal processes at slow-spreading ridges, 84M/1055; *Indian Ocean, Marie Celeste fracture zone*, rock forming minerals in, 84M/1049
—, -diorite sequence, *Japan, Maizura City, Ōura complex*, hornblende-rich, generation of late differentiates midway in layered sequence, 84M/3381
Gabbroic complexes, *Italy, northern Apennines*, from ophiolites, chem., petr., 84M/2096; *Japan, Miyagi Pref., Kasagai-jima*, geol., 84M/3380
—, rocks, *USSR, southern Urals, west side*, alkali, and K-rich analogues, 84M/4374; *Czechoslovakia, Železné hory pluton*, geochem., 84M/0563; *Chile, Antofagasta area*, petr. of ultrabasic nodules from., 84M/2958; *Pacific Ocean, Mathematician Ridge*, from failed rift. 84M/3462
Gabbroids, *USSR, Dzhugdzhur Range*, genetic connection with apatite-ilmenite titanomagnetite ores, 84M/0982
Gabbronorite, *New Zealand, Darran Mtns., Hollyford*, calcalkaline cumulate, 84M/3388
GABON, basal conglomerate in West Congolan geosyncline, glacial origin, 84M/4455; *Mayombe belt*, evidence from ophiolitic complexes for belt formation, new geotectonic interpretation, 84M/3459; *Moanda*, manganite formation in first stage of lateritic Mn ores, 84M/0838; *Oklo*, migration, retention of elements in natural reactor, 84M/1543; ^{235}U abundance in U ore, detn. with Ge(Li) γ-ray spectrometer, 84M/3689
Gadolinite, *Japan, Shikoku, Takanawa Peninsula*, pegmatite occurrence, 84M/4574
Gadolinium, impurities in fluorite, EPR, NAA study, 84M/4081
—, gallium garnet v. garnet, gadolinium gallium
Gahnite, *USSR, Great Keiv*, from schists, microprobe anal., 84M/3200; *Nigeria*, gem-quality, compn., comparisons, 84M/4252
Gainesite, *USA, Maine, Nevel (Twin Tunnels) pegmatite*, new phosphate mineral, data, 84M/3236
Galena, Se distrib. between galena, sphalerite, 84M/2701; microprobe data, 84M/3209; *England, Cornwall, Greystone quarry*, with hemimorphite, aurichalcite, 84M/2294; *Leicestershire*, occurrences from 1779, review, 84M/3594; *Belgium, Chaudfontaine*, Pb-isotopes, implications for deposit origin, 84M/1671; *Germany, Müllenbach*, with selenogalena in U deposit, paragenesis, 84M/1485; *north Eifel* and *north Sauerland*, Pb-isotope data, 84M/1672; *Italy, Sardinia*, ores, Pb-isotopic compn., 84M/1674; *Czechoslovakia, Javorie Mtns.*, 84M/0254; *Turkey, Kicik, Endişegüney* and *Seyfe*, stratabound mineralization, relation with gangue minerals, genesis, 84M/0259; *Greece, Macedonia, Koronuda*, in ore deposit, 84M/2595; *China, Meng'en Ag-Pb-Zn deposit*, characteristics, significance to ore genesis studies, 84M/4261
Galenobismutite, *Austria, Salzburg, Felbertal*, thin layers in quartz, EM, X-ray study, 84M/3878
Gallium, *Mediterranean area*, content in karst-type bauxites, relationship to parent rocks, 84M/1760
—, ions, Ga^{3+}, distrib. between octahedral, tetrahedral sites in garnets, 84M/0156; isomorphous substitution in alunite structure, 84M/0439; Ga^{3+}, diffusivity in jadeitic melt, 84M/2636
Ganophyllite, cryst. struct., monoclinic subcell, 84M/0173; new Na analogue, 84M/1927; *Wales, Sweden, U.S.A.*, new chem. data, comparisons, 84M/0796
Garnets, distrib. of Fe^{3+}, Ga^{3+} between octahedral, tetrahedral sites, 84M/0156; red-to-violet, new classification, 84M/0494; response, 84M/0495; and glass doublets, description, 84M/0498; types, correlation with various parageneses, morphology, 84M/0761; Mössbauer spectra, 84M/2505; $M_3^{2+}Al_2Si_3O_{12}$ type, Si-O bond lengths, role of empty 3d orbitals in M^{2+} cations, 84M/2506; class of pigments for vitreous enamel industry, 84M/2608; equilibria involving, thermodynamic anals., 84M/2716; phase relationships in join grossular-pyrope-7·5% H_2O at 30 kbar, 84M/4007; aluminosilicate, mixing props., constraints from natural/exptl. data, geothermobarometric applications, 84M/4008; *Norway, Magerøy*, inclusion patterns in zoned, 84M/1824; *USSR, Aktobinskaya volcanic structure*, from dacite-porphyries, genesis, 84M/0760; *central Pripyat Swell*, from deep-seated rocks, min., 84M/0762; *Yakutia*, from kimberlites, min. inclusions in, 84M/3365; *Finland, Lapland*, in placer deposits, occurrences, 84M/4055; *Germany, Bavarian Forest*, in granite, petr., 84M/4319; *Carpathians, Veporide area*, compositional zoning, 84M/0764; *Simla Himalayas*, deformation and chem. growth patterns in, 84M/3124; *North America, Western Cordillera*, 'subcalcic', formation in scheelite-bearing skarns, 84M/1826; *USA, north central Montana*, in diatremes, key to kimberlite prospecting, 84M/4184; *North Carolina, Craggy Mtn. area*, resources in schists/gneisses, 84M/0299
—, almandine, enthalpy of formation by high-*T* borate soln. calorimetry, 84M/0449; faceted fused to glass base in ring, description, 84M/1637; synthetic, high-*P* spectra to 120 kbars, 84M/2722; *south east Spain*, in dacite, rhyodacite, 84M/3126
—, andradite, gem quality, props., ident., 84M/4052; *Australia, NSW, Gumble*, Sn-bearing, data, 84M/1823; *USA, Arizona, C-thon prospect*, new find, 84M/4571
—, andradite-grossular, structures in connection with growth mechanisms, 84M/1359
—, calderite, synthesis, stability in system Fe-Mn-Si-O, 84M/2721
—, gadolinium gallium-, magnetic liquid phase epitaxial layers on, backscattering anal., 84M/1234
—, grandite, *Spain, Hortsavinya*, anomalous birefringence, effect of sector zoning on, 84M/0766; *Japan, Iwate Pref., Kamaishi mine*, birefringence, compn., 84M/0765
—, grossular, colour change in, cause, 84M/1646; gemmological props., ident., discovery, 84M/1647; *Germany, Bavaria, Acherwiese*, occurrence, 84M/3599; *Taiwan, Fengtien nephrite deposit*, chromian, data, 84M/1825
—, grossular-andradite, structures in connection with growth mechanism, 84M/1359
—, hessonite, *Germany, Baden, Auerbach*, cation distrib., 84M/1827
—, hydroandradite, *Sweden, Alnö Island*, occurrence, XRD, TGA data, 84M/1828
—, melanite, *Pacific Ocean, Costa Rica rift*, occurrence with aegirine-augite, 84M/2185
—, pyrope, colour change in, cause, 84M/1646; thermodynamics of melting, glass transitions, props. of amorphous phases, 84M/4010; *USSR, Ukraine, Middle Bug region*, from sedimentary deposits, opt., spect., colorimetric parameters, 84M/0763; *Czechoslovakia, Trebnitz*, cation distrib., 84M/1827; *Australia, Queensland, Brisbane* and *Caboolture areas*, gem quality, resources, origin, 84M/2578
—, pyrope-almandine, effect of impact stresses in surface, 84M/1156
—, spessartine, synthetic, high-*P* spectra to 120 kbars, 84M/2722; *USA, Virginia, Herbb no. 2 pegmatite*, occurrence, 84M/1636; *Brazil, Minas Gerais, Serra do Espinhaço*, in quartzites, 84M/3127
—, uvarovite, *Taiwan, Fengtien nephrite deposit*, data, 84M/1825
—, yttrrium iron-, synthetic, crystal growth parameters, methods for quantitative estimates, example, 84M/0373
Garnetite, *South Africa, Jagersfontein*, xenoliths, texture, min., 84M/0989
Garronite *v.* zeolites
Garyansellite, *Canada, north east Yukon Territory*, new mineral, 84M/4284
Gas chromatography, for detn. of natural gas CH_4, N_2 isotopic ratios, 84M/3690
Gases, homogenous mixtures, nonideal behaviour as function of component critical-*T*, 84M/1549; of solar compn., low- to medium-*T* phase equilibria, 84M/1574; phases of ore-magma systems, 84M/2554
Gebhardite, *Namibia, Tsumeb*, new mineral, props., 84M/1929
Geffroyite, *France, Chaméane*, new mineral, data, 84M/3230
Gehlenite, crystalline and glassy, Raman study, 84M/2527
Gels, crystal growth in, lab. analogue of native, 84M/0385; of formula $MSiO_3$ (M = Cu, Co, Ni, Zn, Mg), dissolution in presence of organic agents, kinetics, thermodynamics, 84M/0690
—, aluminosilicate, transformation into prekaolinitic, pre-zeolitic structures, soln. media effects, 84M/3704
—, silica, crystal growth technique, role of diffusion, 84M/2657; synthetic, sorption of U on, 84M/3744; fibrous, from sepiolite by HCl attack, 84M/3705
—, silica-alumina, formation of zeolite-A, faujasite from, 84M/2756
Gemmology, plea for 'ruby red' to replace 'pigeon's blood' in descriptions, 84M/1635; use of senses in stone ident., 84M/1655; gem testing, state of the art, 84M/1656
Gemmological Instruments, 'Gemtek Gemmologist' thermal conductivity meter, test report, 84M/0503; 'GEM Diamond Mas-

Gemmological Instruments (*contd.*)
ter' thermal inertia meter, description, uses, 84M/0504; new spring-loaded gem holder, 84M/0505; improvements on Rayner refractometer, 84M/2772; X-ray unit for seeing gem fluorescence, phosphorescence, 84M/2773
—, Museums, Deutsches Edelsteinmuseum at Idar-Oberstein, old and new exhibit areas, description, 84M/0507
Gemstones, man-made, ident., (book), 84M/0082; jewellery of Art Deco period, descriptions, illustrations, 84M/0506; carved collophane snuff-bottle, description, 84M/0501; faceted chambersite, hodgkinsonite, boléite, milarite, brief details, 84M/0500; gem trade lab. notes, 84M/0498, 84M/0499; red-to-violet garnets, new classification, 84M/0494; response, 84M/0495; taaffeite and taprobanite, equality, nomenclature problem, 84M/0493; padparadscha sapphire, history, modern usage, GIA interpretation, 84M/0488; naturally coloured and treated yellow/orange-brown sapphires, description, 84M/0487; synthetic Kashan and Knischka rubies, recognition, 84M/0484; diamonds and Harry Winston Inc., history, 84M/0483; pearls, ident. by X-ray diffraction, 84M/1653; pearls, colour and fine structure, 84M/1652; plastic impregnated ceruléite, difference from untreated, 84M/1649, 84M/1650; new natural since 1945, gemmological props., ident. keys, discovery histories, 84M/1647; chatoyant synthetic $MgTiO_3$ single crystals, use, 84M/1643; synthetic citrine, amethyst, blue quartz, colouration of, 84M/1642; synthetic amethyst, distinguishing from natural, 84M/1641; Gilson synthetic opals, new 'Mexican synthetic' props., 84M/1640; Gilson, synthetic opals, props., 84M/1639; plastic imitation opal, new study, props., 84M/1638; almandine-glass doublet in 1830 finger ring, description, 84M/1637; new orange Chatham synthetic, props., 84M/1634; new Chatcham,, Verneuil synthetic sapphires, ident., 84M/1633; tourmaline cabochon with 23 colour zones, description, 84M/2768; Gilson fire opal with play of colours, props., 84M/2765; 5 Gilson opal imitations, investigations, 84M/2764; sapphire cabochon containing unusual voids, 84M/2761; Kashan synthetic ruby, observations, 84M/2760; 56·71 carat tabular stone, brief description, 84M/2759; engraved, historical perspective, 84M/4059; cobalt glass as lapis lazuli imitation, 84M/4058; Gem Trade Lab notes, 84M/4056, 84M/4057; turquoise, ident. by IR, XRD, 84M/4054; Gilson imitation lapis lazuli, props., 84M/4053; andradite garnets, props., ident., 84M/4052; synthetic blue and orange Chatham sapphires, props., ident., 84M/4045; emission spectra of natural/synthetic rubies, sapphires, emerald, alexandrite, 84M/4044; induced fingerprints in synthetic corundum, other gemstones, 84M/4043; Ramaura synthetic ruby, props., 84M/4041, 84M/4042; *Pakistan, Kashmir*, sapphire deposits, hist., geol., production, 84M/0485; *Peshawar, Katlang*, rose-coloured gem quality topaz, anal., props., 84M/2767; *Sri Lanka*, cat's-eye scapolite, study, 84M/0496; opt., cause, 84M/1645; *Nigeria*, gahnite, compn., comparisons, 84M/4252; *Malawi, Chimwadzulu*, sapphires showing 'silk', new source, 84M/0486; *Tanzania*, gem peridot, new locality, anals., 84M/0492; *Umba Valley*, cat's-eye apatite, new gemstone variety, 84M/0497; *Zaïre, Kipushi*, intense green sphalerite, props., 84M/2771; *Zambia*, intense yellow tsilaisite, 84M/4050; *Canada, Quebec, Jeffrey mine* and *Laurel*, vesuvianite, microprobe anals., opt. props., 84M/1644; *Brazil, Ouro Preto, Capao mine*, topaz, andalusite mining, 84M/0490; 'imperial' topaz, hist., geol., genesis, 84M/0491; *Colombia, Bogota*, oil treatment of emeralds, 84M/4046
—, deposits, *Finland, Lapland*, descriptions, 84M/4055
—, identification, computer program for, 84M/4060
Geobarometry, use of coexisting Fe-Ti-oxides on thermodynamic basis, 84M/0404; equilibria in garnet granulite, exptl. investigation, application, 84M/1568; nature, use, review, 84M/2251; granulites, 84M/2641; metapelites, expts. and applications of cordierite-garnet-sillimanite-quartz equilibrium, 84M/2642; new geobarometer for peraluminous rocks, calibration, 84M/2723; new, for assemblage biotite-muscovite-chlorite-quartz, 84M/2733; garnet-orthopyroxene for granulites, peridotites, 84M/3511; for garnet peridotites, evaluation, 84M/3970; constraints on mixing props of aluminosilicate garnets, applications, 84M/4008; implications for from equilibrium state of diopside-bearing harzburgites from ophiolites, 84M/4015; *France, Massif Central, east Rouergue*, high-*P* thermal aureole, 84M/4475; *Spain, Tallante*, potential use of assoc. spinel + quartz in xenoliths, 84M/1108; *Canada, British Columbia, Mica Creek*, of garnet amphibolites, 84M/1148; *North West Territories, Wopmay orogen*, pelitic rocks, 84M/4509; *Pacific Ocean, Loihi Seamount*, ultramafic xenoliths, 84M/3436
Geobotanical anomalies, *Wales, Dolfrwynog bog*, Cu bog, multitemporal remote sensing, 84M/0670
—, exploration *v.* mineral exploration
Geochemical analysis, of samples of variable compn., use of XRF, 84M/3675
—, cycles, model, concentration equivalent of migration, 84M/1661; water in Earth's crust, 84M/4159
—, data, *USA, southern Missouri*, anal., application of digital image processing, 84M/0242
—, exploration *v.* mineral exploration
—, samples, detn. of 18 tr. elements, multielement extraction system, 84M/2423; back extraction of tr. elements from organometallic halide extracts for flameless AAS detn., 84M/2424; JA-1 andesite, JB-2 basalt, detn. of major/minor elements by ICP spectroscopy, 84M/3065
Geochemistry, mining and the environment, 84M/1514; role in geol. prediction, 84M/3930
Geochronology, decay of ^{147}Sm, ^{176}Lu, uses, 84M/2813; *v.* also age determination
Geocronite, microprobe data, 84M/3209
Geodes, *Iraq, Western Desert*, quartz, min., possible origin, 84M/0807
Geoid, and Pangea and convection, relationships, 84M/4616
Geological cross sections, balanced, construction of, 84M/1945; thin-, thick-skinned thrust tectonics, deep crustal continuation, 84M/1947; balanced in areas of extensional tectonics, construction from seismic sections, 84M/1950; oblique and inclined, calculation of bulk strain, 84M/1951; *Scandinavia*, through Caledonides, construction using branch-line maps, 84M/1946; *France, Boulounais, Basse Normandie duplex*, origin, 84M/1949; *Alps*, balanced, implications for deep structure, 84M/1948; *Crete, Talea Ori*, structure, regional significance, 84M/1952; *Canada, Ontario, Muskoka dist.*, deformed granitic rocks, strain anal., 84M/1953
—, papers, guide to presentation, 84M/1240; preparation of photographic slides, 84M/1241
—, samples, anal. of light elements ($Z \leqslant 11$), nuclear method, 84M/1249
—, structures, orthographic anal., 84M/1960
Geomagnetism *v.* magnetic studies
Geophysical data, *USA, southern Missouri*, anal., application of digital image processing, 84M/0242
—, exploration *v.* mineral exploration
—, methods, use in min. exploration, 84M/0247; *USA, South Carolina, Haile mine*, mapping tools in strata-bound Au deposit, 84M/4544
Geophysics, resonance effects in complex resistivity data, min. exploration significance, 84M/4547; gravimetric terrain corrections, optimization, 84M/4554; *England, Lincolnshire* and *South Humberside*, resistivity and γ-logging in Chalk lithostratigraphical studies, 84M/4546; *Canada, Quebec, Lac Bécancour area*, application to structural interpretation, 84M/2000; *Atlantic Ocean, Scilly Isles area*, residual gravity field, geophys. interpretations, 84M/4555
Geospeedometry, extension of geothermometry, 84M/2639
Geosynclines, Rhenohercynian, vertical movements in shelf area, regional isostatic model, 84M/3272; *Namibia, Damara orogen*, development in intracontinental branch, overview, 84M/3276; geodynamic model, 84M/3277
Geothermal areas, chlorite-montmorillonite series minerals formed in, typology of, 84M/0126; *Iceland, Krafla* and *Reykjanes*, water-rock interactions, 84M/0647; *China, Xizang, Yangbajain*, H, O stable isotope compn., tritium content of waters, 84M/4166
—, conductivity meter *v.* apparatus
—, energy, *Canada, British Columbia, Penticton*, from Tertiary outlier, 84M/4551
—, fields, *New Zealand, Mokai*, structure, geophys. evidence, 84M/4413
—, measurements, *Canada, north British Columbia* and *south Yukon*, 84M/4552
—, resources, *north China*, and geotemp. distrib. in Meso-Cainozoic basins, 84M/3591
—, systems, ancient and modern, geochem. review, 84M/4160; *Mexico, Baja California, Cerro Prieto*, active metasomatism in,

Geothermal systems (*contd.*)
telescoped low-T, P metamorphic facies series, 84M/3510; *Kerguelen Islands*, *Rallier du Baty Peninsula*, ice capped system, detection by IR thermography, 84M/4411
—, waters, *Iceland*, chem. min. equilibria, variables controlling compns., 84M/0648; *Iceland*, chem. geothermometry, 84M/0649; *Portugal*, *Chaves* and *S. Pedro do Sol*, thermal reservoirs, temp., 84M/3012; *north east Japan*, acid sulphate-chloride, origin of S species in, 84M/3015; *v.* also springs
Geothermometry, detn. of mole fractions of end-member ilmenite/ulvöspinel, new recalculation scheme, 84M/0403; use of coexisting Fe-Ti-oxides on thermodynamic basis, 84M/0404; 'quadrilateral' pyroxene geothermometry, critical review, 84M/0453; *P*-sensitive 'silica geothermometer', detn. from quartz solubility measurements, 84M/0475; pyroxene O-isotope fractionations, calibration of mineral-pair geothermometers, 84M/0520; magnetite-ilmenite-orthopyroxene-clinopyroxene associations in volcanic rocks, 84M/1021; vitrinite reflectance as absolute palaeogeothermometer, 84M/1107; use of zircon, sphene, reappraisal, 84M/1201; native, use, review, 84M/2251; connection with geospeedometry, 84M/2639; metapelites, expts. and applications of cordierite-garnet-sillimanite-quartz equilibrium, 84M/2642; 2-pyroxene, problems, 84M/2645; garnet-pyroxene, in granulites, 84M/3125; garnet-spinel for plutonic rocks, 84M/3329; for garnet peridotites, evaluation, 84M/3970; constraints on mixing props. of aluminosilicate garnets, applications, 84M/4008; two-pyroxene, 84M/4021; two-pyroxene of mantle lherzolites, new method, 84M/4022; *Iceland*, of geothermal waters, 84M/0649; *France*, *Massif Central*, *east Rouergue*, high-*P* thermal aureole, 84M/4475; *Spain*, *Tallante*, potential use of assoc. spinel + quartz in xenoliths, 84M/1108; *Greece*, *Naxos*, calcite-graphite, significance of data from graphite-bearing marbles, 84M/2819; *Bulgaria*, *Rosen ore field*, apatite, quartz, calcite, 84M/1417; *Japan*, *Hida metamorphic terrain*, C isotope for detn. of metamorphic *T*, 84M/4500; *Kasuga area*, C-isotope calibration by dolomite-calcite solvus *T*, 84M/0639; *New Zealand*, *Wairakei*, O-isotope, new evidence on from magnetite growth in corroded steam pipelines, 84M/1666; *Canada*, *British Columbia*, *Mica Creek*, of garnet amphibolites, 84M/1148; *Labrador*, *Kiglapait aureole*, 84M/4483; *North West Territories*, *Wopmay orogen*, pelitic rocks, 84M/4509; *USA*, *California*, garnet-hornblende, calibration, testing, application, 84M/4520; *Pacific Ocean*, *Galapagos Rift*, of hydrothermal sulphides, 84M/2829; *Red Sea*, *Atlantis II Deep*, O-isotope, of smectites, 84M/2976
Germanate micas, *v.* micas, germanate
Germanates, ortho-clinopyroxene-type $MgGeO_3$, crystal structure, 84M/1365; $BaZnGeO_4$, shock-induced phase change, 84M/1579; $LiAlGeO_4$, $LiGaGeO_4$, phase changes at high *T*, *P*, cryst., 84M/0367; synthetic $Ca_{3-x}[GeO_4](O_{1-2x},F_{2x})$ with $x \sim 0{\cdot}275$, structure, 84M/3837; $Na_6Sn_4[GeO_4][Ge_2O_7]_2O_2(OH)_2$, crystal structure, 84M/2539; in system $Ba_2TiGe_2O_8$-$Ba_2TiSi_2O_8$, synthesis structures, 84M/4037
Germanites, $CaGeO_3$ perovskite, crystal structure, 84M/2538; $MgGeO_3$ polymorphs with pyroxene structure, flux growth, phase relations, crystal structure, 84M/2727
Germanium, crystals grown at zero gravity, outstripping of dislocations by growth front, 84M/3962; *Belgium*, content in Fe-sulphides, 84M/1897
—, compounds, nitride and oxynitride, structure, effect of *T*, *P* on, 84M/1346; GeO_2, solid solubility in SnO_2, 84M/1586; GeO_2, thermal expansion data, 84M/4537
—, deposits, *China*, uraniferous in Neogene basin, metallogeny, min. characteristics, 84M/1496
—, glasses *v.* glasses
—, ions, Ge^{4+}, diffusivity in jadeitic melt, 84M/2636
GERMANY, *north west*, metavolcanic rocks from Rhenohercynian belt, chem. compn., genetic relations, 84M/3266 *West Germany*, Cainozoic melilitites, isotope and tr. element evidence for alkali basalt to kimberlite transition, 84M/0556; *Aachen region*, Palaeozoic shales, carbonates, geochem. studies, 84M/1761; *Baden Auerbach*, hessonite, cation distrib., 84M/1827; *Baden-Baden*, *Müllenbach*, U. deposit, min., paragenesis, 84M/1485; Upper Carboniferous host rock, alteration during hydrothermal ore formation, 84M/2588; *Bavaria*, *north*, first occurrences of some U-minerals, sulphides in U exploration sites, 84M/1460; *north east*, vein-, sedimentary-hosted carbonaceous matter and phosphorus, implication for syngenetic/epigenetic U concentration, 84M/2856; *Bavaria*, *Bayerland mine*, falkmanite, new data, relationship with Pb-sulphantimonates, re-examination of type material, 84M/0859; *Fichtelgebirge*, eüclase, anatase, new deposits, descriptions, 84M/2298; *Fichtelgebirge*, *Acherwiese*, minerals, 84M/3599; *Hagendorf*, secondary phosphates, sulphates, 84M/0877; *Hagendorf*, wilhelmvierlingite, new mineral, 84M/0897; *Hagendorf*, possible ferrian variety of kingsmountite, 84M/1917; *Hagendorf-Süd*, phosphates, mining tonnages, graphs, 84M/0876; *Inzell*, *Halden am Kienberg*, old Pb/Zn mine, mineral list, 84M/2301; *Münchberg massif*, mafic, ultramafic rocks, U/Pb zircon dating, 84M/2087; *Bavarian Forest*, garnet-, spinel-, sillimanite-bearing granites, petr., 84M/4319; *Eifel dist.*, osumilite in xenoliths, anals., use as petrogenetic indicator, 84M/3136; *Bellerberg volcano*, eifelite, new osumilite group mineral, 84M/0883; *Wehr volcano*, corundum from contact metamorphic xenolith, fluid inclusion study, 84M/3192; *North Eifel* and *North Sauerland*, galena occurrences, Pb-isotope data, 84M/1672; *Erzgebirge*, *Markersbach*, dickite in granite, description, 84M/0116; *Upper Franconia*, *Zeilberg*, partially disordered natrolite, structure refinement, 84M/1382; *Frankfurt/Oder dist.*, *Eisenhüttenstadt area*, rozenite on xylite in glaciofluviatile sands, 84M/4271; *Friedrichsegen mine dumps*, minerals, list, 84M/3597; *Habichtswald Mtn. area*, Miocene basaltic pyroclastic rocks petr., geochem., 84M/0557; *Hannover area*, minerals of, journeys for, 84M/2297; *Harz Mtns.*, flysch, olistostromes, nappes in, 84M/3262; *Harz Mtns.*, *Glücksrad mine*, schulenbergite, new mineral, data, 84M/3247; *St Andreasburg*, geol., tectonics, mineralization, mineral list, 84M/1173; *Hessen*, permanently operated wells, variations in tr. element contents, 84M/1786; *Hessian depression*, Tertiary basaltic rocks, chem., 84M/4368; *northern Hessian depression*, upper mantle rocks from basalts, 84M/3311; *Imsbach*, minerals, list, descriptions, 84M/4561; *Kaiserstuhl*, carbonatite tuffs, chem., stable isotope anals., comparison with Tanzanian, 84M/0571; *Kyffhäuser Mtns*, gypsum rendzinas, chem. anals., 84M/2479; *Laacher See volcano*, phonolites, tr. element abundancies, mineral/melt distrib. coefficients, 84M/2881; *Lake Constance* [*Boden See*], sedimentation rate variations, anthropogenic metal fluxes into, 84M/3944; *Messel oil shales*, hydroxy acid content, geochem. indicator, 84M/0698; *Ore Mtns*, *Tharandt-Grillenburger Wald*, soils of Cretaceous sandstone area, 84M/0138; *Rheinische Schiefergebirge*, neritic sedimentation in Lower/Middle Devonian, 84M/3258; Devonian, Carboniferous limestone-turbidites, tectonic significance, 84M/3260; Carboniferous flysch, depositional models, 84M/3261; migration of folding, metamorphism, deduction from K/Ar, Rb/Sr ages, 84M/3270; subfluence tectonics, exptl. study, 84M/3271; *south east*, nappe tectonics; 84M/3268; *western*, sedimentary development, 84M/3264; *Rheinisches Schiefergebirge*, *Dill syncline*, Upper Devonian shales, sandstones, lithology, 84M/2210; *Rhine graben*, example of graben controlled by wrench faulting, 84M/1188; *Rhön*, weathering in Upper Bunter clayey sediments, 84M/1341; *Richelsdorf Mtns*, richelsdorfite, new mineral, data, 84M/3246; *Saarland*, authigenic fibrous sericite whiskers growing into detrital quartz, 84M/1073; *Sauerland*, *Ramsbeck*, secondary Pb-Zn minerals, 84M/4560; *Saxony*, *Schneeberg*, schumacherite, new mineral data, 84M/3248; *Schellkopf area*, cleft minerals, descriptions, crystal diagrams, 84M/1174; *Schwarzwald* (*Black Forest*), Hercynian granites, pre-Hercynian gneisses, O-isotope compn., 84M/1722; new mineral discoveries in, 84M/2299; eclogites, retrograde transformation, 84M/3528; pale-green beryl crystals, 84M/3598; Permian volcanites, Rb/Sr systematics, 84M/3650; *Oberwolfach*, *Clara mine*, minerals, list, 84M/1175; polybasite occurrence, 84M/1176; phosphofibrite, new mineral, data, 84M/3245; new mineral finds, 84M/4559; sulphide minerals, paragenesis, 84M/4562; *Haigerach* and *Geisberg*, Permian volcanites, eruption age, mechanism of Rb/Sr whole rock age distortions, 84M/2340; *Neubulach*, bulachite, new mineral, data, 84M/3229; *Weilar*, *Michael mine*, description, history, mineral list, 84M/2300; *Westphalia*, strontianite, occurrence, 84M/1177; *Württem-*

GERMANY (*contd.*)
berg, *Pfäffingen* and *Schwenningen*, gypsum-bearing Keuper, lithology, min. compn., 84M/2486
Gersdorffite, *Spain*, *Sierra Nevada area*, with annabergite, glaucodot, new occurrence, 84M/3212; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075; *Japan*, *Aichi Pref.*, *Kira-cho*, in Mn-ore, 84M/4575
Gerstmannite, *USA*, *New Jersey*, *Franklin* and *Sterling Hill*, description, 84M/4606
Gibbsite, dissolution in HNO_3, kinetics, 84M/0100; imitation turquoise, description, 84M/0499; effects of adsorbates on Raman spectrum, re-examination, 84M/1286; thermochem., 84M/1583; microcrystalline, interaction with Cu^{2+}, evidence for oriented chemisorbed Cu ions, 84M/3742; *China*, *Jiangxi Prov.*, *414 mining dist.*, from weathering of Nb-, Ta-bearing albitized granite, discovery, genesis, 84M/1475
Gillespite, I-II phase transition, high-*P*, high-*T* cryst. study, 84M/0168
Gilsonite, bulk/surface characterization, potential of ESCA techniques, 84M/0684
Gimbernat, Carles de, reproduction of 1st (1803) Swiss geol. map, 84M/0926
Giraudite, *France*, *Chaméane*, new mineral, data, 84M/3230
Glaciers, *New Zealand*, *Mueller Glacier*, rcent moraines, revised ages, 84M/1215
Glacial chronology, *New Zealand*, *Warwick Valley*, ^{14}C dating, 84M/0036
—, sediments *v.* sediments, glacial
—, sequences, *New Zealand*, *Marius Valley*, late Pleistocene, ^{14}C dating, 84M/0035
Glaciation, strain patterns in ice, implications for strain variations in shear zones, 84M/1977; reduction of thermohaline circulation during deglaciation, effects, 84M/2628; glaciated volcanic islands, favourability for origin of life, 84M/2782; ocean chem. during, comment, 84M/2794; *north east Spitsbergen*, effect of transport on Precambrian dolomite crystal sizes, 84M/3470
Gladite, *Austria*, *Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902
Gladstone-Dale relationship, compatibility concept and its application, 84M/1153
Glass, gel-derived soda-silica glass, evaluation of liquidus *T*, 84M/0356; detn. of B_2O_3 content by XRF, 84M/2402; spectrophotometric detn. of reduced/total Fe in, 84M/2415; *Bulgaria*, *Borovitsa region*, inclusion in quartz phenocrysts in acid volcanites, 84M/0976; *Sumatra*, inclusions in Toba Tuffs, 84M/1030
—, Libyan Desert, varying luminescence intensities, implications, 84M/4209
—, sands, detn. of Fe, Ti after decompn. by acid vapour, 84M/3684
Glasses, along albite-diopside join, subliquidus glass-glass immiscibility, 84M/0357; glassy rocks, surface chem. and dissolution kinetics at 25°C, 84M/0368; in assemblage $L + Fo + Di_{ss} + En_{ss} + Pl$ in Ca-Mg-Al-Si-oxide system, compn., 84M/0460; in equilibrium with pigeonite, olivine, augite, silica in Ca-Mg-Fe-Al-Si-oxide system, microprobe detn., 84M/0461; Al coordination in, comments on Al avoidance principle, 84M/2497; in system $CaMgSi_2O_6 - CaAl_2SiO_6$, thermochem. study, 84M/2731; in system $Na_2O.xSiO_2$-Fe-O, Raman, ^{57}Fe Mössbauer spectra, 84M/3975; vol. relaxation in compacted SiO_2, model for conservation of natural diaplectic glass, 84M/4032; oxidized vs. reduced Na-aluminosilicate, coordination of Fe^{3+}, Mössbauer study, 84M/4036; binary GeO_2-SiO_2, thermal expansion behaviour, 84M/4527
—, basaltic, interaction with sea-water at 50°C, exptl., EM/XPS study of early phases, 84M/0351; alteration, mechanisms, significance for oceanic crust-sea water budget, 84M/0616; mid ocean ridge, K, U, Th in, 84M/4095; *Iceland*, phase relations in transitional and alkali, 84M/0955; *Iceland*, spinel minerals in transitional, alkali, 84M/1877; *Pacific Ocean*, *Costa Rica rift*, evidence for compositionally nearly steady-state magma chamber, 84M/2197; *Pacific Ocean*, *East Pacific Rise*, *Tamayo region*, petrogenesis, 84M/3461
—, diopsidic, high-*P* quenched, *T* dependence of CO_2 solubility, 84M/0457
—, rhyolitic, *Japan*, anorthoclase spherulites, in devitrified, EM study, 84M/3177
—, lunar, Apollo 17 drive tube 74002/1 orange/black, S content, isotope compn., 84M/0730
Glauberite, *Spain*, *Laguna de Tirez*, in playa lake sequence, 84M/1074; *China*, *Hubei Prov.*, *Q basin*, in Eocene saline deposit, 84M/4270; *USA*, *Arizona*, *Camp Verde*, large crystals and pseudomorphs of aragonite, calcite, gypsum after, 84M/2322
Glaucodot, *Spain*, *Sierra Nevada area*, with gersdorffite, annabergite, new occurrence, 84M/3212
Glauconies, *south Sweden* and *Denmark*, *Öland* and *Bornholm*, high-alumina from Middle Cambrian, 84M/2205
Glauconite, bacterial breakdown, 84M/0361; *England*, *Kent*, *Sandwich*, compositional variations in, 84M/1857; *Lake District*, aluminous, correspondence with celadonite-like mineral in weathered basalt, implications, 84M/1858; *Poland*, Cu-bearing from Zechstein Cu deposits, 84M/4237; *India*, *Kerala*, *Quilon limestone*, early diagenetic, significance, genesis, 84M/1094; *USA*, *Texas*, *Queen City formation*, interlayered, K/Ar dating, 84M/0050; *Atlantic Ocean*, *Falkland plateau*, authigenic with gypsum, pyrite, in Miocene biogenic ooze, 84M/2201; *South China Sea*, *Beibu Bay*, min., 84M/3167
Gmelinite *v.* zeolites
Gneiss, *west Greenland*, Ti, Al, interlayer cation substitutions in biotite from, 84M/3155; *west Norway*, high grade complex, contrasting Fe-Ti, Mg-Cr garnet peridotites in, 84M/3517; *Gjerstad*, resetting of Rb/Sr isochrons during Sveconorwegian events, 84M/1204; *Molde Penin.*, Proterozoic augen, geochem., Rb/Sr study, 84M/2997; *Risberget nappe*, augen-, Rb/Sr age detn., 84M/1203; *Finland*, *Kemiö Island*, Svecofenian-mantled dome, evolution, evidence for thrusting, 84M/3521; *Suomussalmi-Kuhmo region*, Archaean granodioritic, Rb/Sr, Sm/Nd ages, isotope geochem., 84M/0012; *England*, *Cornwall*, *Kennack*, Rb/Sr isochron age, implications for age of Lizard complex, 84M/3641; *Wales*, *Llŷ*
Peninsula, *Parwyd*, Rb/Sr whole rock age
$\delta^{18}O$ values, geochem., 84M/3643; *P*
land and *Czechoslovakia*, *Sienna synform*
relationship to deformational stages i
Śnieżnik massif, 84M/4491; *Poland* an
Czechoslovakia, *Sudetes Mtns.*, *Izera bloc*
proposed classification, nomenclatur
84M/4322; *France*, *Massif Central*, fini
strain detn., application of Fry's metho
84M/1959; *Germany*, *Schwarzwald*, pr
Hercynian, O-isotope compn., 84M/172
Austria, *Steiermark*, *Koralpe*, perthitic a
kali feldspar in, 84M/3531; *Pennine Alp*
Gruf complex, garnet-cordierite-sillimanit
metamorphic evolution, 84M/3534; *nort*
west India, metasedimentary enclaves fro
Archaean complex, min. paragenese
metamorphic reactions, 84M/3546; *Indi*
Chakradharpur complex, geochem., 84M
4111; *Karnataka*, from basement, Rb/S
Pb/Pb ages, 84M/2346; Peninsular Gneis
petr., chem., isotopic ages, 84M/365
Kerala, *Quilon dist.*, cordierite-bearin
structure, metamorphic characteristic
84M/4497; *Japan*, *Hida Metamorphic bel*
obliquity of K-feldspar from, 84M/186
China, *eastern Hebei Prov.*, Archaean gra
ulite, *RE* element geochem., tectonic impl
cations, 84M/4153; *Indonesia*, *Timor*, *B*
massif, cordierite-bearing, metamorphic *
T conditions, tectonic implications, 84M
2272; *Western Australia*, *eastern Yilga*
block, Archaean, Sm/Nd, Rb/Sr datin
84M/0032; *Canada*, *northern Labrador*, A
chaean, min. ages, secondary isochrons,
diffusion, 84M/0640; *New Brunswic*
Brookville gneiss, age, discussion of pr
vious paper, 84M/0039; *Ontario*, *Englis*
River subprovince, Archaean granitoid,
isotope geochem., 84M/4128; *Quebe*
Cape Smith fold belt, Archaean, Rb/S
study, 84M/0040; *Montauban-les-Mine*
quartzofeldspathic, origin, 84M/4156
USA, *east central Alaska*, sillimanite-
dome in Yukon terrain, 84M/3556; *Geor*
gia, *North* and *South Carolina* late orogenic
thermomagnetic characteristics, 84M
3588; *Massachusetts* and *Connecticut*, geo
chem., petrogenesis, isotopic age, 84M
4516; *Montana*, *Broadwater River area*
Precambrian granitic, min, petr. of meta
sedimentary xenoliths in, 84M/2003; *North*
Carolina, *Roan Mtn.*, granulite-facies, age
P-T conditions during metamorphism
84M/2363; *Watauga River*, *Cranberry* and
Crossing Knob, Rb/Sr ages, 84M/2362
Antarctica, *Enderby Land*, *Napier complex*
Precambrian, geochem., 84M/3004
—, granite *v.* granite gneiss
Gobbinsite *v.* zeolites
Goethite, Mössbauer spectrum, influence o
Al substitution, crystallinity, 84M/0187; i
soils, concentration by boiling NaOH
84M/1294; Synthetic Al-goethite, dissolu
tion in 6M HCl, 84M/2690; H-isotop
fractionation assoc. with dehydration
84M/2691; intergrowths with rutile, hydr
thermal synthesis, structural relationshi
to pseudorutile, 84M/2692; aluminous
Fourier transform IR studies, 84M/3735
formation from ferrihydrite, effect of pH
84M/3990; Al-substituted, unit cell dimen
sions, Al estimation, 84M/4256; *England*

Goethite (*contd.*)
Spain, Australia, USA, botryoidal, high-resolution TEM study, 84M/4257; *Belgium, central Ardennes*, in brown soils, implications, 84M/1325; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Bulgaria, Kremikovci deposit*, with paraschachnerite, grains, 84M/0822; *Hungary, Úrkút*, with rhodochrosite in submarine volcanogenic Mn deposit, 84M/1486; *India, Tamil Nadu, Salem*, in bauxite, isomorphous substitution of Al in, 84M/1880; *Tanzania, Umba Valley*, cause of chatoyancy in apatite, 84M/0497; *USA New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Mexico, Querétaro*, inclusions in opal, 84M/0489
—, -hematite equilibrium, effects of AlOOH-FeOOH solid soln. on, 84M/1299
Gold, occurrence, relationship with Sn in deposits, 84M/0535; future in USA and World economy, (book), 84M/1256; recovery at lead-collection step by fire-assay, 84M/2426; detn. in ores, products, specific solvent extraction method, 84M/2430; solubility in H_2O, HCl, HF, NaCl, KCl, NaF, KF, K_2CO_3, Na_2CO_3, $KHCO_3$, $NaHCO_3$, at $P = 1000\ kg/cm^2$, 84M/2681; microbial uptake, metabolism, implications for Precambrian ore deposits, 84M/2778; behavioural synchroneity with Sb during basic magma evolution at depth, 84M/2863; coprecipitation with Ag at $T = 100°–200°C$, 84M/3985; content in Cr-spinel, ilmenite, magnetite from layered complexes, 84M/4249; *Scotland, Gairloch area*, in stratiform Cu-Zn-Au deposit, 84M/1482; *eastern USSR*, inclusions in native Ag, use as ore index feature, 84M/0231; *Italy, Liguria*, content in ophiolites, 84M/2144; *Czechoslovakia, Vtáčnik Mtns.*, in pyrite, data, 84M/0526; *Žiar Mtns.*, native, in recent flow system, new occurrence, 84M/0253; *Bulgaria*, in pyrite, chalcopyrite of 'Elacite' porphyry Cu deposit, 84M/0819; *Hungary, Botes* and *Vulkój-Korábia*, occurrence, description, 84M/2307; *Romania, Offenbanya-Baia de Arieş*, occurrence, 84M/2309; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Sri Lanka, Muthurajawela peat deposit*, and *Mannar Island* in mats, geochem., 84M/2973; *Japan, Ukyoku, Narabigaoka*, native, occurrence, X-ray data, 84M/4591; *Australia, NSW, Blayney, Brown's Creek*, in skarn, 84M/3912; *NSW* and *Victoria*, in goldfield surface waters, anal., possible direct hydrogeochem. prospecting, 84M/3043; *Queensland, Brisbane* and *Caboolture areas*, reefs, occurrences, resources, 84M/2578; *Gilberton area*, alluvial and reef type, deposits, 84M/2579; *Western Australia*, nature of Archaean Au-bearing fluids, evidence from Au deposits, 84M/0536; *Yilgarn block*, mobility in lateritic weathering profiles, 84M/4142; *South Africa, Fairview mine*, refractory ore, sulphide concentrate, calcined tailing, min. study, 84M/0283; *Steynsdorp Goldfield*, origin in greenstone quartz veins, review, 84M/0235; *Witwatersrand*, derivation in conglomerates, alternative model, 84M/2570; *Witwatersrand* and *Barberton*, single grains, Ag and Hg in, implications, uses, 84M/1870; *Canada*, in Huronian supergroup, origin, distrib., 84M/2583; *USA, Arizona, Old Yuma mine*, possible cause of black wulfenite crystal colour, 84M/2324; *California, south-central Mother Lode*, in mariposite-bearing rocks, isotopic studies, 84M/0547
—, deposits, in Precambrian quartz-pebble conglomerates, genesis, 84M/0261; typomorphism of dioctahedral micas in, 84M/3150; Archaean banded Fe-formation-hosted, epigenetic origin, 84M/3861; *south west Greenland*, mineralization in Precambrian rocks, 84M/2564; *France, Brioude-Massiac dist.*, with Sn, W, fluid inclusion study, 84M/3875; *Austria, Waschgang*, with Cu minerals, ore mineralogy, 84M/3902; *India, Dharwar Craton, Kolar*, genetic features, 84M/3883; *Saudi Arabia, Mahd adh Dhahab mine*, tectonic control of mineralization, 84M/2596; *Canada*, geol., special volume, 84M/3896; *USA, South Carolina, Haile mine*, geophys. methods as mapping tools, 84M/4544
—, minerals, *Romania, Faczebaja-Faţa Băii*, tellurides, brief description, 84M/2308; *Australia, Queensland, Mount Hogan*, Au-tellurides, resources, 84M/2579; *Western Australia, Kalgoorlie*, Au-tellurides in pyritic shear zone, geochem., isotopic studies, 84M/0546
—, mining, *Hungary, Nagyág-[Săcărîmb]*, history, list of minerals, 84M/2306; *Siebenbürgen*, early history, list of assoc. minerals, 84M/2304; *Romania, Verespatak (Rosia Montana)*, description, mineralization, 84M/2305
—, ores, C-containing quartz-sulphide ores, presence of mantle, crustal elements, implications, 84M/4082; *USSR, Altai-Sayan folded region*, radiogeochem. characteristics of pyrite from, 84M/0525
—, tailings, *Austria, Rauris Valley*, rare minerals assoc. with, 84M/3601
—, veins, quartz segregation from host rock as factor in genesis, 84M/1421
Gondwana, supposed Permo-Trias megashear with Laurasia, 84M/3616; *Tibet, Yarlung Zangbo (Tsangpo) suture zone*, position of northern boundary, brief discussion, 84M/1051
Gorceixite, *Poland, Stanisławów*, from baryte-fluorite deposit, 84M/3224
Görgeyite, *Italy, Latium, Cesano geothermal field*, occurrence , props., 84M/1906; *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270
Gormanite, *Canada, north east Yukon*, new mineral, ferrous analogue of souzalite, 84M/0884
Gouy-Chapman theory, extended, application to clay exchange behaviour in natural waters, 84M/3733
Goyazite, *USA, Colorado, Denver area*, in Cretaceous kaolinitic altered tuffs, 84M/4282
Grabens, initiation, control by wrench faults, 84M/1188; rhombic trapezoidal, triangular, new aspects of, 84M/4299; *Bulgaria, Plovdiv*, central Alpine magmatism in basement, evolution, 84M/0935; *east Zaïre*, Upper Precambrian, later reactivation, 84M/1193
Graftonite-type phases, $(Fe_{1-z}\ Me_z)_3\ (PO_4)_2$ solid solns., cation distrib., Mössbauer study, 84M/0202
Grandidierite, *Scotland, Haddo House complex*, from pelitic xenolith, anal., 84M/4217; *India, Paderu*, occurrence, 84/M0770
Granite, fluid flow through cylinders in *T* gradient, chem. reactions, 84M/0370; intrusions, best model for rare-metal ore zones, 84M/0539; rare metal, albite-spodumene pegmatites as variety of, 84M/0992; thermal props. at high-*T*, 84M/1167; biotite-, muscovite-, crustal magmatic sources, exptl. studies, 84M/1552; metastable melting in, 84M/1553; Archaean, elemental depletion in, 84M/1773; typology, geol. environment, melting relationships, 84M/2011; U in symposium papers, 84M/2921; 'hot', general remarks, 84M/2922; types, tectonic emplacement, 84M/3327; restite, xenoliths, microgranitoid enclaves in, 84M/3335, 84M/4349; *Norway, Lødingen*, age, possible regional significance, 84M/3633; *Risberget nappe*, rapakivi granite, Rb/Sr age detn., 84M/1203; *Skaget*, fluidization breccia in, 84M/2053; *Sweden, Graversfors*, Rb/Sr dating, 84M/1206; *Värmland*, Sundsta granite, Rb/Sr age, 84M/0011; *north Finland*, biotite, major element geochem., origin, metallogenetical aspects, 84M/3157; *USSR, Lake Onega*, solidified melt inclusions in quartz from regenerated granite, 84M/3361; *British Isles*, metalliferous, signatures of, 84M/2941; *Britain*, origin, evolution of Caledonian, role of continental crust, O and Sr-isotopic evidence, 84M/1716; *northern Britain*, buried late Caledonian, coupled Sm/Nd, U/Pb systematics, 84M/4065; *southern Britain*, Pb-isotope compn. of feldspars, relation to age and nature of basement, 84M/0555; *south west England*, fluid inclusion petrography, potential in mineral exploration, 84M/1808; *England, Cornubian batholith*, Li-mica bearing, textural evolution, 84M/3343; *Cornwall, St Austell area*, disseminated Sn-sulphides in, 84M/3211; late-stage rocks, origins, reinterpretation, 84M/3344; *Ireland*, Newer Caledonian, radioelement geochem., 84M/2873; *north west*, fracture-controlled feldspar shape fabrics in deformed, 84M/4366; *Leinster granite*, γ-radiometric survey of northern units, 84M/2874; hydrothermal phenomena within, relationship to crustal fractures, Landsat study, 84M/3346; *Leinster batholith, Lugnaquillia*, geol., field relationships, 84M/3347; *Co. Wexford, Carnsore*, depth of emplacement, hornfels of, 84M/4474; *France, Lozère*, geochem., geol. context with Massif Central, 84M/1720; *Massif Central, Millevaches*, successive generations of muscovite, K-feldspar in leucogranites, 84M/4228; *Portugal, Santa Comba Dão*, detn. of geotechnical parameters from weathering degree, 84M 3582; *Sátão*, with mylonitized border, texture, min., 84M/3352; *Portugal* and *Spain*, U occurrences around intrusions, excursion guide, 84M/1458; *Pyrenees, Massif of Agly, Ansignan granite*, age of formation, U/Pb evidence, 84M 0016; *Germany, Bavarian Forest*, garnet-, spinel-, sillimanite-bearing, petr., 84M/4319; *Erz-*

Granite (*contd.*)
gebirge, Markersbach, dickite in, description, 84M/0116; *Schwarzwald*, Hercynian, O-isotope compn., 84M/1722; *Poland* and *Czechoslovakia, Sudetes Mtns., Izera block*, proposed classification, nomenclature, 84M/4322; *Czechoslovakia, Moravia*, andalusite in peraluminous Eisgarn type, magmatic genesis, 84M/3356; *Switzerland*, extraction of U, Th from, 84M/0558; microdistrib. of U, Th, 84M/0559; *Italy, Calabria—Peloritani arc*, peraluminous, geochem. data, principal component and discriminant anal., 84M/2883; peraluminous suite, 84M/3353; *West Carpathians, Spiš-Gemer region*, stanniferous, petr., geochem., comparison with other areas, 84M/0565; *Turkey, western Anatolia*, intrusions, K/Ar ages, 84M/0019; *India, Karnataka, Chitradurga*, petr., chem., isotopic ages, 84M/3655; *Closepet*, origin, implications for southern Karnataka crustal evolution, 84M/4494; *Kabbaldurga*, production, link with charnokite formation, evidence, 84M/2248; *central Kerala*, early Palaeozoic I-type, bearing on possible mineralization, 84M/3377; *Kerala, Cannanore dist., Peralimala granite*, petr., chem., tectonic significance, 84M/3378; *Munnar*, alkali, geochem., petrogenesis, bearing on rift tectonics, 84M/2895; *Orissa, Singhbhum granite*, interrelationship between two granitic units, 84M/2028; *Sri Lanka*, pink, origin, new view, 84M/0994; *Himalayas, Bhutan* and *Garhwal*, leuco-, contrasting ^{18}O enrichments, origins, 84M/2896; *Himalayas, Makalu*, effect of initial ^{230}Th disequilibrium on young U/Pb ages, 84M/3657; *Palung granite*, zircon and monazite, high resolution U/Pb systematics, 84M/0026; *south Tibet*, tourmalines from, 84M/0776; *south China*, Mesozoic, minerogenetic series of, brief discussion, 84M/1427; Yenshanian, metallogenic series of related *RE*, rare and non ferrous metal deposits, 84M/1692; genetic series, Mesozoic examples, 84M/2032; *Jiangxi Prov., 414 mining dist.*, Nb-, Ta-bearing, discovery and genesis of gibbsite from weathered, 84M/1475; *China, Liaoning Prov.*, Yanshanian, relation to Mo deposits, 84M/1473; *Mongolia, South Gobi belt*, alkali, crystallization, melt inclusion study, 84M/4376; *Japan, Hida metamorphic belt*, obliquity of K-feldspar from, 84M/1860; *Australia, NSW, New England*, Sn-mineralized, fluid inclusion study of ore formation, 84M/1502; *Queensland, Lawn Hill*, extremely K-rich, 84M/3382; *Aukland Islands, Musgrave Penin.*, and *Carnley Harbour*, age, 84M/1216; *Nigeria, Igbeti area*, potassic, evidence of polycyclic evolution of Pan-African belt, 84M/2889; *Matsena area*, Younger Granites, geol., 84M/3368; *Nassarawa Eggon* and *Mkar-Gboko*, geochron., 84M/3652; *Namibia, Damara orogen*, genesis in light of Rb/Sr, $\delta^{18}O$ data, 84M/3292; *Canada, Baffin Island, Fury* and *Hecla Strait area*, uraniferous, 84M/2933; *Labrador*, uraniferous, geochem., geol., 84M/2942; *Flowers River* and *Letitia Lake complexes*, peralkaline granite centres, correlation, 84M/1011; *Newfoundland, Dunnage zone*, Overflow Pond granite, age, contact metamorphic effects, 84M/2358; *Ontario* and *North West Territories*, radioactive, radiometric study, 84M/2932; *Quebec, Mount Laurier*, Eu anomalies in *RE* element spectra, significance, 84M/0584; *USA, Alaska, Seward Peninsula*, Sn-bearing, geol., 84M/1006; *Georgia, North* and *South Carolina*, late orogenic, thermomagnetic characteristics, 84M/3588; *Maine, Augusta*, synmetamorphic, correlation of bimodal ^{18}O values with alteration minerals, 84M/4157; *Nevada, southern Snake Range*, geochem., min. diversity, 84M/1737; *Toana Range*, coexisting biotite, muscovite from, markedly discordant K/Ar ages, 84M/1222; *Peru, Coastal batholith*, new approach to mapping, 84M/3398; *Brazil*, weathering, 84M/3765; *North Sea, Mid North Sea high*, buried, 84M/0958
—, complexes, *Nigeria, Jos Plateau, Amo complex*, evolution, mineralization, geochem. aspects, 84M/1726
—, -gneiss, *Ireland, Co. Mayo, Doolough Point area*, stanniferous, occurrence, 84M/3000; *India, Chakradharpur complex*, geochem., 84M/4111
—, lunar *v.* lunar rocks
—, porphyry, *Caucasus Mtns.*, radiation effects in, ages of dykes, ident. by Fe Mössbauer spectra, 84M/3629
—, system, effects of Li on, exptl. study, 84M/2750
Granitic complexes, *South West Sweden*, strongly recrystallized, O-isotope systematics, 84M/2868
—, intrusions, *South China*, U potential, evaluation, application of fuzzy set method, 84M/1693
—, liquids, H_2O-undersaturated, generation by dehydration melting of pelitic rocks, 84M/1569
—, pegmatites *v.* pegmatites
—, plutonism *v.* plutonism
—, rocks, eutectic diag. plotted in terms of chem. potential of fully mobile component, 84M/2861; intrusive, regression petrochem. compn., 84M/2865; Sn-bearing, geochem., 84M/4098; *Scotland, Foyers complex*, metamorphic environment, 84M/2232; *Spain, Sistema Central area*, relationship between mica chem. compns. and magmatic differentiation processes, 84M/3154; *Portugal, Caramulo, Guardão region*, K-felspars from, petr., XRD powder patterns, 84M/3174; 2V angle and structure, relationship, 84M/3175; *Czechoslovakia, Železné hory pluton*, geochem., 84M/0563; *Bulgaria, central Srednogorie*, intrusions, K/Ar studies, 84M/1209; *West Carpathians*, natural radioactivity, 84M/0567; *India*, Precambrian, radioactive heat generation in, 84M/3590; *Andhra Pradesh, Kanigiri area*, rare-metal mineralization in, 84M/0575; *China, Jilin Prov., Tonghua region*, Diwa-type, metallogeny, discussion, 84M/3889; *Japan, Kii Peninsula*, sulphide, oxide mineral paragenesis, 84M/1891; *Kii Penin., Omine*, geol., major element chem., 84M/0998; mineralogy, 84M/0999; *Korea, Gyeongsang basin*, general geol., K/Ar ages, 84M/0027; *Nigeria, Afu Younger granite complex*, F content and behaviour in, 84M/0572; *Namibia, Damara orogen*, survey of, origin, 84M/3290; *Canada, Ontario, Muskoka dist.*, deformed strain anal., 84M/1953; *Manitoba, Molson Lake–Red Sucker Lake area*, late kinematic, airborne radiometric anomalies from, 84M/2935; *USA, California, Central Sierra Nevada*, magma mixing in, 84M/3396; *Utah, Notch Peak*, H-isotope variations, vapour phase exsolutions as controlling factor, 84M/2946
—, stocks *v.* stocks
Granitoid gneisses *v.* gneiss
—, magmas *v.* magmas, granitoid
—, plutons *v.* plutons, granitoid
Granitoids, alteration events in, Rb/Sr dating of, 84M/1207; formation, 84M/2241; fractionation of, light *RE* element zoning in sphene, allanite during, 84M/4074; in contrasting arcs, geochem. characteristics, magma sources, 84M/4121; zoning in K-feldspar megacrysts, Ba as indicator of, 84M/4239; *Sweden, Orust area, Stora Le Marstrand belt*, age relations, 84M/0010; *Finland, Sottunga*, syn- and post Svecokarelian, age differences between Rb/Sr whole rock, U/Pb zircon ages, 84M/3638; *USSR, Tuva, Ular massif*, andalusite, sillimanite formation in contact aureole, 84M/1829; *Tyrnyauz*, zoning, indicator of erosion depth, 84M/3363; *West Carpathians*, I/S classification, genetic implications, 84M/0564; geol., petr., min., geochem., geochron., prelim. results, 84M/0966; classification by mesonorm, 84M/0967; petr. characteristics, 84M/0968; *Czechoslovakia, Malé Karpaty Mtns.*, Rb/Sr isochron ages, 84M/0017; major element chem., contribution to petrogenesis, 84M/0969; *south Bulgaria*, geochem. of *RE* elements in sphenes, 84M/1664; Nb, Ta in, geochem., 84M/1725; *Hungary, Velence* and *Mecsek Mtns*, zircons from, 84M/0757; *Turkey, Avanos area*, metamorphic feldspathization of, 84M/2263; *Büyükçay-Elmaliçay*, min., petr., geochem., 84M/3359; *Japan, Tsushima Island*, anomalous Cl contents in Miocene, 84M/0577; *Canada, Nova Scotia, South Mountain batholiths*, U, Th geochem., distrib. in, genetic and exploration implications, 84M/2923; *Ontario, Kenora area*, Archaean plutons, petrogenesis, 84M/4395; *Superior prov.*, uraniferous, 84M/2929; *Ontario* and *Quebec, Grenville structural prov.*, heterogeneous rocks from, radioactive occurrences, min., petr., chem., 84M/2924; *USA, Basin and Range Prov.*, and data, 84M/4129; *California, Central Sierra Nevada batholith*, compn. variations, element abundancies, 84M/0591
Granodiorite, *Scotland, Strontian*, distrib. of metamorphic *T* around, 84M/1106; *eastern Finland*, Archaean, major and tr. element geochem, crustal evolution, 84M/2999; *Italy, eastern Alps*, cumulate-like textures, chem. relationships in, 84M/2021; *Japan, Honshu, Tōno pluton*, low-grade metapelites in contact aureole, 84M/3507; *Australia, NSW, Cobar Lucknow area*, Silurian I-type intrusive, age, basement/cover relations, 84M/3661; *USA, California, eastern Peninsular Ranges, RE* element distrib., petrogenetic implications, 84M/0593; *Montana, Beartooth Mtns., South Snowy block*, biotite-, prelim. zircon U/Pb

Granodiorite (*contd.*)
dating, 84M/2004; *Peru, Quellaveco*, K/Ar age, 84M/1227
Granophyre, *Greenland, Independence Fjord*, intrusive, interaction with sialic crust, 84M/2017; *Peru, coastal batholith*, intrusives, crystallization history, 84M/2049
Granulite, garnet-, exptl. investigation, application of equilibria, 84M/1568; geobarometry, 84M/2641; garnet-pyroxene geothermometry in, 84M/3125; garnet-orthopyroxene barometry, 84M/3511; Nd/Sr isotopic compn., constraints on lower continental crust evolution, 84M/4148; *north west Scotland* and *southern India*, Archaean, element depletion in, 84M/1773; *Finland, Lapland*, mafic, isotopic data, 84M/3636; *Italy, southern Calabria*, felsic, petr., 84M/3538; *Pyrenees Mtns.*, crustal splitting and emplacement, 84M/4317; *India, Karnataka, Sargur terrain, P-T* estimates of basic, metamorphism conditions, comment on previous paper, 84M/1136; *Mysore dist., Doddakanya*, basic scapolite-garnet-pyroxene, formation, min. chem., *P-T* conditions, 84M/2266; *China, Qianxi County*, Archaean, min., *P-T* conditions of crystallization, 84M/1138; *Australia, Strangways Range, Arunta block*, metamorphic, tectonic evolution, 84M/3552; *Strangways* and *Fraser Ranges*, ^{18}O depletion in Precambrian, 84M/4155; *Queensland, Einasleigh*, Proterozoic mafic, geochem., O-isotope affinities, 84M/3003; *USA, Virginia, Blue Ridge*, age, origin, Nd, Sr-isotope evidence, 84M/3668; *Adirondack Mtns.*, mafic, min. chem., 84M/0787; *Brazil, Bahia, Jequié*, Archaean, radioactive element distrib. in, 84M/3006; *Chile, Pali-Aike volcanic field*, xenoliths, petr., chem., recrystallization history, 84M/3565
—, complexes, *Mexico, Oaxaca*, Precambrian evaporites in, evidence, 84M/4343
—, facies *v.* metamorphic facies
Graphite, classical/non-classical twins, 84M/2534; *USSR, Ukraine, Novopoltavskiy pluton*, in carbonatite veins, 84M/0817; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Sri Lanka, Kahatagaha-Kolongaha area*, mineralization, geol., 84M/0265; *China, Anshan*, in Early Precambrian banded Fe formation, origin, 84M/2577; *Japan, Ehime Pref., Tobe dist.*, amygdaloidal in pottery stone, 84M/0524; *Morocco*, octahedral aggregates in ultramafic pluton, probable paramorph, cause, 84M/1869; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *New York, Lead Hill (Chison Hill) mine*, undeformed crystals, occurrence, description, 84M/2318
Gravel, *Scotland, Islay*, recent submarine aragonite, magnesian calcite, hematite cements in, 84M/1064
—, resources, *England, Suffolk, Redgrave*, 84M/0309; *Scotland, Central Region, Callander* and *Dunblane*, 84M/0308; *Iraq*, for concrete, alkali reactivity, 84M/0302
Gravity anomalies, *northern Britain*, regional, 84M/2288; *Scotland, South Harris*, 84M/1158
—, surveys, *Canada, Wisconsin, southwest Marathon Co.*, Precambrian terrain, 84M/3589
GREAT BRITAIN, sediments related to crustal development, Nd-isotope study, 84M/0596; Caledonian granites, role of continental crust in origin, evolution, O and Sr-isotopic evidence, 84M/1716; mineral deposits, sterilisation, safeguarding, 84M/2633; signatures of metalliferous granites, 84M/2941; monazite in panned stream sediments, distrib., palaeogeographic implications, 84M/3472; mineral deposits, annotated bibliog., (book), 84M/3692; *north*, regional gravity anomalies, 84M/2287; *northern*, late Caledonian granites and basement under, coupled Sm/Nd, U/Pb systematics, 84M/4065; *southern*, age and nature of basement, Sr, Pb-isotopes in granites, 84M/0555
GREECE, metasomatic transformation of ophiolite plagioclases during splitization, 84M/2099; Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite from alpine-type deposits, 84M/4249; *north*, neotectonics, implications for 'incompatible' structures along North Anatolian fault, 84M/1955; enigmatic structures in North Anatolian fault zone, tectonic implications, 84M/1956; *Chalkidiki complex*, chromites in ultramafic textural features, chem. characteristics, 84M/3196; *Chalkidiki, Vourinos* and *Tsangli areas*, podiform chromite deposits, primary features, genesis, 84M/2135; *Vourinos*, ophiolite, age, microfossil data, 84M/2101; *Vourinos ophiolite*, magmatic series with island arc affinities, 84M/4428; *Ermioni*, Mesozoic metalliferous sediments from ophiolites, analogue of Recent mid-ocean ridge ferromanganese deposits, 84M/2849; *Mt. Kalidromon*, bauxite, outcrop, varying redox reactions, 84M/4450; *Kimolos Island*, montmorillonites, props., smectite crystal chem., 84M/2475; *Lakmon Mtns.*, Triassic shoshonites, andesites, differences in primary geochem. and sheet silicate alteration products, 84M/0562; *Laurion*, agardite-(La), new variety, description, 84M/1923; *Lesbos*, zoned pyroxenes from shoshonitic lavas, inferences for shoshonite petrogenesis, 84M/4219; *Macedonia, Guevgueli complex*, differentiation of ophiolitic magma, 84M/2102; *Koronuda*, ore mineralization, min. study, 84M/2595; *Milos* and *Santorini*, role of continental crust in calc-alkaline volcanism, Sr-isotope, tr. element evidence, 84M/0561; *Naxos*, graphite-bearing marbles, data, significance to calcite-graphite isotope thermometer, 84M/2819; *Orthrys Mtn.*, ophiolites, possible old oceanic crust, 84M/2100; ophiolites, geotectonic context, 84M/2103; *Santorini Island*, metalliferous sediments, waters assoc. with shallow submarine hydrothermal activity, geochem., 84M/0654; high alumina lavas, tr. element geochem., 84M/1724; *Santorini volcano, Nea-Kameni*, hyalodacites, geochem., inferences for solfatara origins, effects, and magmatic evolution, 84M/4109; *Santorini, Kameni Islands*, Fe-rich muds, origin, 84M/2969; *Thessaly*, Neolithic, Bronze Age ceramics, X-ray, XRD, SEM studies, 84M/2332
GREENLAND, isomorphous substitutions in allanite, 84M/0771; Precambrian shield, evolution, 84M/0906; U isotopes in ice-sheet, link with Cosmos-954, 84M/3936; *central east*, scheelite mineralization, 84M/1434; *southern west*, carbonatites, kimberlites, lamprophyres, ages, 84M/1202; *south west*, Au mineralization in Precambrian rocks, 84M/2564; Archaean metasedimentary rocks, geochem., 84M/4150; *west*, K/Rb ratios in amphibolites, metasomatic control, 84M/1767; Ti, Al, interlayer cation substitutions in biotite, 84M/3155; Mesozoic undersaturated alkaline rocks, *RE* element abundancies, 84M/4102; *northern Buksefjorden, Inugssugssuaq nappe*, magma generated structures, Late Archaean development, 84M/0954; *Fiskenæsset*, metasomatic zoned ultramafic pod, *RE* element distrib., 84M/1714; magnesian högbomite in sapphirine-bearing rock, 84M/0824; *Hold with Hope* and *Wollaston Forland*, Tertiary flood basalts, petr., 84M/3338; *Ilímaussaq*, vuonnemite, second occurrence, data, 84M/1835; microcline from nepheline syenite, TEM study, 84M/2524; kvanefjeldite, new mineral, crystal structure, 84M/2515; *Ilímaussaq, Kvanefjeld area*, lomonosovite, occurrence, anals., morph., X-ray, opt., IR, thermal data, 84M/1868; *Independence Fjord*, Midsommersø dolerite, granophyre, mobilized sandstone ('rheopsammite') intrusions, interaction with sialic crust, 84M/2017; *Isua Fe formation, RE* element content, 84M/2996; *Ivigtut*, jarlite, crystal structure, 84M/1406; *Karramiut Island*, ore minerals of Cu-Ag mineralization, microstructures, descriptions, 84M/0279; *Motzfeldt centre*, mafic silicates from nepheline syenites, 84M/1841; *Myggbukta* and *Kap Broer Ruys*, possible most northerly Greenland Tertiary igneous centres, 84M/4359; *Narssaq, Narssarssuaq* and *Julianehåb*, pitchblende veins in Proterozoic granite, 84M/0248; *Nordre Strømfjord area*, co-existing mafic minerals in granulite facies, amphibolites, chem., metamorphism conditions, 84M/1850; *Skaergaard complex*, layering, origins, 84M/4351; trough-layering structures, 84M/4352; ilvaite alteration replacing olivine, 84M/3137; petr. of upper border series, 84M/3337; *Tunugdliarfik*, steenstrupine, crystal structure, 84M/2514; *Ubekendt Ejland*, lamprophyres, products of renewed partial melting or extreme differentiation? 84M/2018
GREENLAND SEA, *Mohns-Knipovich Ridge*, basalts, petr., 84M/4103
Greenockite, *Mexico, Chihuahua, San Antonio mine*, colouring agent for yellow smithsonite, 84M/4613
Greenschists, *USA, Washington, North Cascades*, geochem., 84M/0641; *Antarctica, Shag Rocks*, geol., possible regional correlations, 84M/1145
—, facies *v.* metamorphic facies
Greenstones, origin, effect of sea-water/basalt reaction, 84M/0230; *Norway, Trondheim, Benna area*, secondary elemental mobility within, 84M/1766; *Sweden, Jofjället area*, related to rifting, ocean basin opening, 84M/0628; *Western Australia, Kambalda*, revised Sm/Nd systematics, 84M/3663; *Yilgarn block*, zircon age data, 84M/0034; *Canada, Ontario, Lake Superior Park*, bimodal volcanism in Archaean belts,

Greenstones (*contd.*)
greywacke compn. evidence, 84M/2040; *Southern Superior Prov.*, upward facing structures, horizontal shortening of, 84M/4511; *Upper Manitou Lake*, kink folds in, 84M/2274
—, belts, Proterozoic, need for more studies on banded Fe-formations in, 84M/2202; *Norway, Finnmark, Karasjok*, komatiitic chlorite-amphibolite rocks, mafic metavolcanics, prelim. study, 84M/4485; *Brazil, Goias, Crixas*, ultramafic lava flows of, 84M/2062
—, formations, *Norway, Jonsvatn formation*, volcanostratigraphy, eruptive products, 84M/4427
Greisenization, *England, Cornwall, Goonbarrow china clay pit*, assoc. with economic kaolinization, 84M/1682
Grenada v. Lesser Antilles
'Grey Billy' *v.* quartz
Greywacke, hydrothermal alteration by 4 molal NaCl, 84M/3977; *Canada, Ontario, Lake Superior Park*, evidence for compn. of bimodal volcanism in Archaean greenstone belts, 84M/2040; *South Georgia*, geochem., prelim. study, 84M/0609; *South Georgia, Cumberland Bay formation*, volcaniclastic, geol., petr., 84M/1099
Grits, *Western Australia, Yilgarn block*, cemented by allophane or kaolinite and opal-CT, 84M/1095
Gritstone resources, *England, Yorkshire, Horton-in-Ribblesdale*, 84M/0294
Groundwater, development of reaction models for, 84M/0664; movement of nitrates, pesticides in vegetation cover-soil groundwater-rock system, 84M/1528; pollution by nitrates, pesticides, disease-producing bacteria, data acquisition, evaluation, 84M/1531; use of tritium in studying flow, discharge, 84M/3297; protection for waste disposal in Wessex Water Authority area, 84M/3941; *Ireland*, quality, impact of agriculture on, 84M/1530; *Castlecomer plateau*, resources, 84M/3010; *Spain, Tajo basin*, detn. of absolute age, 84M/3644; *South Australia*, hydrogeochem., application to min. exploration, 84M/3042
Groutite, *Solomon Islands*, precipitation in exhalative environment, 84M/1880; *USA, Arizona, Malpais Hill*, ramsdellite pseudomorphs after, 84M/2325
Grovesite, synonymous with pennantite-Ia, 84M/1854
Grunerite *v.* amphiboles, grunerite
GUATEMALA, *Fuego volcano*, SO_2 emission in 1974 eruption, 84M/1043
GUATEMALA BASIN, tr. metal remobilization in interstitial waters of red clays, hemipelagic marine sediments, 84M/1781; ^{230}Th, ^{231}Pa removal of ocean margins, 84M/2989; *MANOP site H*, Zn interaction with interfacial sediments, application of adsorption data, 84M/0613
Gudmundite, *India, Kolar*, new locality, anal., 84M/3883
GULF OF CALIFORNIA, tectonic regimes, detn. from fault measurement, relation to opening of Gulf, 84M/1199; sediments, min., inorganic geochem., 84M/2152; crustal accretion, intermediate rate spreading axis, 84M/2162; igneous rocks, Sr, Nd-isotope geochem., 84M/2917; magnetic minerals in Recent hemipelagic sediments, diagenesis, 84M/3496; *DSDP leg 65*, basalts, geochem., 84M/2157; *DSDP sites 482–485*, basalts, lithology, petrography, min., 84M/2153; basalt, chem. variation, microprobe study, 84M/2154; *sites 482, 483, 485*, basalt, geochem., 84M/2155; basalt, geochem., *RE* element abundancies, 84M/2156
GULF OF GUINEA, metalliferous encrustation from seamount, anal., 84M/2844
GULF OF MEXICO, Pu ocean transport/deposition, sediment evidence, 84M/0320; areal extent of drilling fluids in surficial marine sediments, assessment by pyrolysis, Ba distrib., 84M/1536
GULF OF TADJOURA, Quaternary sediments, tectonics, 84M/0940
Gypsum, rapid removal from soil samples, method, 84M/0073; crystal growth in gels, lab. study, 84M/0385; synthetic crystal growth at low supersaturation, 84M/0428; direct extraction of SO_2 for isotopic anal., 84M/2445; Raman spectra under pressure, 84M/2542; *Poland, Carpathian Mtns.*, in weathering crust of sandstone tors, 84M/4451; *Germany, Kyffhäuser Mtns.*, rendzinas, chem., anals., 84M/2479; *Ramsbeck*, occurrence, 84M/4560; *Austria, Styria, Johnsbach*, occurrence, description, 84M/2303; *Spain, Alcázar de San Juan*, in saline sediments, 84M/2614; *La Mancha*, recent crystals, modes of formation, diagnostic features, 84M/0863; *China*, from Sb deposit, anomalous gas-liquid inclusions in, genesis, 84M/4268; *Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270; *Canada, Ontario, Antikokan area*, filling fractures in Archaean granite, S-isotope geochem., 84M/0322; *USA, Arizona, Camp Verde*, pseudomorphs after glauberite, 84M/2322; *Glove mine*, occurrence, 84M/4609; *Mexico, Chihuahua, Santa Eulalia dist.*, crystals >10′ long in cavern, 84M/2330; *Naica*, crystals, description, 84M/4613; *Atlantic Ocean, Falkland plateau*, authigenic with pyrite, glauconite, in Miocene biogenic ooze, 84M/2201
, -bearing rocks, *Pfäffingen* and *Schwenningen*, Keuper, lithology, min. compn., 84M/2486
, deposits, *Poland, Wydrza*, alteration products in, min., petr., 84M/1082; *China, south Jinsangsu* to *Xizang*, Triassic marine, 84M/2220; *South Australia, Blanchetown*, geol. studies, 84M/2610; *Eyre Penin., Lake Macdonnell*, reserves, review, 84M/2611

Hackmanite *v.* sodalite
Hafnium, fractionation in cassiterite, 84M/0825
—, compounds, HfO_2, thermal expansion data, 84M/4537
—, isotopes, ^{182}Hf, chronometer for early Solar System, 84M/3082; *USA, Hawaii, Oahu*, evidence for basalt multiple sources, 84M/2914; *Tristan da Cunha, Kerguelen Island, Samoa*, $^{176}Hf/^{177}Hf$ ratios of volcanic rocks, comparisons, 84M/0583
Halite, liquidus in NaCl-H_2O binary at $T >$ 450°C, DTA study, 84M/0445; *Spain, Alcázar de San Juan*, in saline sediments, 84M/2614; *Laguna de Tirez*, hopper crystals in playa lake sequence, 84M/1074; *Egypt, Lake Qarun*, from brine, geochem., 84M/1744; *USA, Arizona, Camp Verde*, occurrence, 84M/2322; *Texas, Texas Panhandle*, complex polyhedral limpid dolomite crystals on cube edges, 84M/0871
Halloysite *v.* kaolinite
Halopelites, mineral paragenesis of K salt deposits, 84M/1058
Halotrichite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Hammarite, *Austria, Salzburg, Felbartal*, thin layers in quartz, EM, X-ray study, 84M/3878
Harkerite, *China, Dading Sn-Fe deposits*, occurrence, 84M/3123
Harmotome *v.* zeolites
Harzburgite, diopside-bearing from ophiolites, equilibrium state, geobarometric, geodynamic implications, 84M/4015
Hashemite, *west central Jordan*, new mineral, data, 84M/3237
Hatchettolite, *USSR, Ukraine, Novopoltavskiy pluton*, in carbonatite veins, 84M/0817
Hauckite, *USA, New Jersey*, description, 84M/4606
Hawaiite, *Canada, British Columbia, Itcha Mtn. Range*, origin, 84M/2039; *Ascension Island*, petr., 84M/2060
Hawleyite, *India, Kolar*, new locality, anal., 84M/3883
Haycockite, *Poland, Krzemianka*, in titanomagnetite ore, anals., 84M/4262
Hectorite *v.* smectite
Hedenbergite *v.* pyroxene
Hedleyite, *Indian, Kolar*, new locality, anal., 84M/3883
Helium, concentrations in water samples, possible method of studying long-lived faults, 84M/4070; Earth's budget, 84M/4294; *South Africa*, primitive in diamonds, 84M/2818; *Canada, Fairmont Hot Springs*, in fumarolic gases, evidence for geothermal activity, 84M/0663
, isoptes, $^3He/^4He$, use as tracer for mantle isotope geochem., 84M/0508; *Iceland*, relationship to other isotopes in volcanic glasses, 84M/2867; *north east Japan*, $^3He/^4He$ ratios in CH_4-rich natural gases, possible magmatic origin, 84M/2798; *New Zealand, Lake Taupo*, profile, 84M/1778; *Pacific Ocean, Loihi Seamount* and *Hawaii*, variations in volcanic rocks, 84M/3438; content in basalts and xenoliths, 84M/3439
Hematite, in soils, concentration by boiling NaOH, 84M/1294; equilibrium with goethite, effects of AlOOH-FeOOH solid soln. on, 84M/1299; use in Indian medicine, 84M/1527; in ferruginous quartzites, morphology, ontogeny, 84M/1875; formation from ferrihydrite in soln. at 92°C, detailed study, 84M/2693; aluminous, Fourier transform IR studies, 84M/3735; staining in soils and soil colour, quantitative relationships, 84M/3773; formation from ferrihydrite, effect of pH, 84M/3990; *Scotland, Islay*, recent submarine cement in gravel, 84M/1064; *Belgium, Daverdisse*, in quartzite, quartz veins, 84M/1483; *Italy, Sicily*, thin platy crystals, occurrence, description, 84M/2316; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Žiar Mtns.*, occurrence, 84M/0253; *Mongolia, Baiyun Ebo Fe deposit*, O isotope compn.,

Hematite (*contd.*)
84M/2823; *South Australia, Maslin Beach*, iridescent living feruginous concretions, 84M/3487; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Mexico, Querétaro*, inclusions in opal, 84M/0489; *Argentina, Hombre Muerto*, with Ta-Nb minerals in gneisses/schists, microprobe anals., 84M/0278
Hemimorphite, *England, Cornwall, Greystone quarry*, new occurrence, 84M/2294; *USA, Arizona, Glove mine*, occurrence, 84M/4609; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *v.* also calamine
Henryite, *USA, Arizona, Bisbee, Campbell orebody*, new mineral, props., 84M/1930
Hercynian Mountains, *central Europe*, crustal structure, model for thickening, stacking, 84M/3274
Herderite, gemmological props., ident., discovery, 84M/1647; *England, Devon, Meldon*, occurrence in aplite, 84M/4254
Herrengrundite *v.* devilline
Hessite, *Austria, Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902; *Greece, Macedonia, Koronuda*, with wehrlite, galena in ore deposit, 84M/2595; *Hungary, Botes* and *Vulkój-Korábia*, occurrence, description, 84M/2307; *India, Kolar*, new locality, anal., 84M/3883; *Japan, Hokkaido, Daté mine*, new examination, 84M/1901; *Yokozura mine*, occurrence, opt. props., paragenesis, 84M/1902
Heulandite *v.* zeolites
Hexahydrite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Spain, Alcázar de San Juan*, in saline sediments, 84M/2614; *Japan*, in Cretaceous sedimentary rocks, 84M/4573
Heyrovskyite, relationship with new mineral aschamalmite, 84M/1924; *Germany, Clara mine*, occurrence, paragenesis, 84M/4562
HIMALAYAS, kyanite, U concentration, fission track dating, 84M/0025; quartz-kyanite segregation in thrust zone, petr., fluid inclusions, 84M/0638; metamorphism, tectonics, 84M/2264; Abor volcanics, evidence for Tethys birth in Himalayan segment, 84M/3373; regionally consistent stretching lineations and plate motions, relationship, 84M/4328; *north west*, intermontane-basin development, chronology, development of NW syntaxis, 84M/3315; *Bhutan Himalaya*, geol., 84M/0941; *Bhutan* and *Garhwal*, intrusives, contrasting ^{18}O enrichments, origins, 84M/2896; *Ghaggar* to *Markanda Rivers*, sedimentology of exposed Siwalik group, 84M/3480; *Ladakh Himalaya*, ophiolite-sedimentary belt of Indus tectonic zone, stratigraphy, tectonic significance, 84M/2113; *Ladakh region, Transhimalaya* (*Gangdese*) *plutonic belt*, U/Pb, Rb/Sr study, 84M/3658; *Makalu granite*, effect of initial ^{230}Th disequilibrium on young U/Pb ages, 84M/3657; *Mangsu La area*, magnetite tuff, 84M/3427; *Palung granite*, zircon and monazite, high resolution U/Pb systematics, 84M/0026; *Simla Himalayas*, garnets, deformation and chem. growth patterns in, 84M/3124; *Simla area, Jutogh klippe*, geol., structural evolution, 84M/4329
Himalaya-Tibet orogenic belt, structure, evolution, 84M/4618
Hingganite-(Yb), *USSR, Kola Peninsula*, new mineral, props., 84M/1931; crystal structure, 84M/3794
Hodgkinsonite, faceted gemstone, brief details, 84M/0500
Hodrushite-like mineral, *Scotland, Tomnadashan*, inclusions in tetrahedrite, 84M/1483
Högbomite, *Greenland, Fiskenæsset region*, magnesian, in sapphirine-bearing rock, 84M/0824
Hollandite, barian, solid solubilites of Cs, Sr, Y, La, U, Th, Na in, radionuclide implications, 84M/0325; high-resolution TEM study, 84M/0775
Holmquistite *v.* amphiboles, holmquistite
Hornblende *v.* amphiboles, hornblende
Hornfels, *Ireland, Co. Wexford, Carnsore granite*, emplacement depth, hornfels anal. evidence, 84M/4474; *USA, north east Minnesota*, pelitic, anal. of biotite compn. variations, 84M/3156; *Montana, Stillwater complex*, at base, systematic variations in, 84M/2009
Horsts, rhombic, trapezoidal, triangular, new aspects of, 84M/4299
Hotsonite, *South Africa, Pofadder*, new mineral, occurrence with zaherite, 84M/1905
Hot springs *v.* springs, hot
Humic acid *v.* acid, humic
—, substances, from aquatic/terrestrial sources, comparison of structures, 84M/0676; catalytic synthesis by natural clays, silts, soils, 84M/1288; structure of dissolved and phytoplanktonic precursors, ^{1}H, ^{13}C NMR study, 84M/1799; adsorption by Mn-oxides, 84M/3046
Humicretes *v.* sands
Humite, beam damage in the electron microscope, 84M/2725
HUNGARY, *Börzsöny Mtns.*, ore mineralizations, metallogenic, min., geochem. studies, 84M/2568; *Botes* and *Vulkój-Korábia*, gold and hessite, description, 84M/2307; *Bükkium*, Palaeozoic, Mesozoic formations, very low- to low-grade Alpine metamorphism, 84M/3535; *Faczebaja-Fața Băii*, gold tellurides, brief description, 84M/2308; *Gulacs Hill*, partially disordered natrolite on tetranatrolite, chem. anals, cell, IR spectra, 84M/0815; *Kovácsihegy* and *Uzsabánya*, basalts, geochem., petr., 84M/2884; *Koros River, Csongrád borehole*, min., geochem. variations in relation to sedimentation rates, 84M/1748; *Nadap*, heulandite, structural study of dehydration, 84M/2531; *Nadap* and *Halap Hill*, heulandite with anomalous thermal behaviour, garronite, chem. anals, cell, IR spectra, 84M/0815; *Nagyág-Săcărîmb*, gold mining, history, mineral list, 84M/2306; *Rudabanya*, effect of mechanical energy on finely ground complex carbonate ore, 84M/0433; *Siebenbürgen*, gold mining, early history, list of main assoc. minerals, 84M/2304; *south Transdanubia*, amphibolites, metavolcanics of crystalline complexes, origin, 84M/3536; *Úrkút*, submarine volcanogenic Mn deposit, paragenesis, 84M/1486; *Vaskereszte*, metagabbro, petr., 84M/3532; *Velence* and *Mecsek Mtns*, zircon from granitoid rocks, 84M/0757
Hyalite *v.* opal
Hyalodacite *v.* dacite
Hyalophane *v.* feldspar
Hydrocarbons, balance with sulphates during S-deposit formation, 84M/0429; application of pyrolysis to basin studies, 84M/0683; COOH-terminal isoleucine in fossil dipeptides, epimerization of, 84M/0689; dissolution of $MSiO_3$ gels in contact with, kinetics, thermodynamics, 84M/0690; organic syntheses with clay-supported reagents, 84M/1270; reaction products of organic dye molecules with acid-treated montmorillonite, 84M/1271; applications of laser pyrolysis gas chromatography in organic geochem., 84M/1798; fuel minerals and precursors, comparison by H atomic ratios, 84M/1802; migration, accumulation of primary, importance of water to, 84M/1803; isomerization, aromatization in sedimentary basins formed by extension, 84M/3047; reservoirs in continental sediments and sedimentary facies variations, predictive model, 84M/3467; low mol. wt. from Murchison meteorite, C isotope compn., 84M/4204; *Scotland, Orcadian basin*, minerals, distrib., 84M/0675; *USSR, Kamchatka*, gas, steam discharges from thermal fields, chromatographic anal., 84M/1801; *Udachnaya West pipe*, abiogenic, synthesis in kimberlite pipes, C-isotope distrib. evidence, 84M/0510; *France, Alps*, inclusions in metamorphic minerals, textures, 84M/4488; *coastal Mediterranean Sea*, distrib., vertical transport of residues, biogeochem. processes affecting, 84M/0694; *Canada, British Columbia, Williston basin*, traps for, role of early dolomitization in creation, 84M/4466; *USA, Washington*, polycyclic aromatic phase associations in coastal sediments, 84M/0326; *North Sea, East Shetland basin* and *Viking graben*, generation, migration from Jurassic rocks, 84M/0703; *Pacific Ocean, Tokyo Bay*, polycyclic aromatic, trends, factors governing level, 84M/4178; *Pacific Ocean, DSDP site 467*, organic geochem., 84M/0679
—, albertite, *Canada, New Brunswick*, structure, anal., 84M/3227
—, alcohols, with alkenes, reactions over Al-montmorillonite, 84M/1319
—, alkanes, *Italy, Como, Dervio-Colico road tunnel*, minor, in cordierite, 84M/3135; *Zaïre/Rwanda, Lake Kiva*, N-alkanes from sediments, chem. compn., 84M/0692
—, alkenes, with alcohols, reactions over Al-montmorillonite, 84M/1319; *USA, Narragansett Bay estuary*, C_{25} and C_{30} biogenic in sediments, geochem., 84M/0691
—, aromatic, *China, Chaidama basin, Hang-2 well*, homologous series in mature/immature sedimentary rocks, comparison, 84M/1796
—, benzene, liquid-solid transformations, observations under high-*P*, 84M/3963
—, bitumen, solid, microwave dielectric props., 84M/2285; uraniferous, genetic relationship with petroleum-like substances, 84M/4174; *Israel, Ghareb formation*, from Upper Cretaceous chalk, biol. markers in, 84M/4175; *Canada, Baffin Island, Nanisivik deposit*, mesophase development in, 84M/4482
, carbohydrates, diagenesis by hydrogen sulphide, 84M/3052

Hydrocarbons (*contd.*)
—, carboxylic acids low mol.wt. mono- from Murchison meteorite, C isotope compn., 84M/4204; *Canada, Alberta*, in buried Ah horizons, palaeoenvironmental indicators, 84M/0674
—, collagen modern/fossil, C, N isotopic compn., 84M/4173
—, ethyl acetate, production from acetic acid, clay catalysts for, 84M/1269
—, ethyl alcohol, liquid-solid transformations, observations under high-*P*, 84M/3963
—, ethylene, montmorillonite catalysts for, 84M/1268
—, fatty acids, *Pacific Ocean, Aleutian basin, Bering deep basin*, turbidity current deposition, 84M/3045
—, hopanes, *Australia*, demethylated in crude oils, petroleum geochem. application, 84M/0699
—, hopanoids, extended, in peat environments, 84M/3048
—, hydroxyacids, in lacustrine, marine sediments and oil shales, use as geochem. indicator, 84M/0698
—, kerogens, bulk/surface characterization, potential of ESCA techniques, 84M/0684; use of sp. gr. as type, maturation indicator, 84M/1792; in carbonaceous-chondrite meteorites, isotopic compn., 84M/1815; *Sweden, Billingen-Falbygden* and *Närke areas*, resources in Cambrian shales, 84M/1416; *Australia*, content in coals, evaluation of Rock-Eval pyrolysis, 84M/4179; *South Africa, USA, Western Australia*, Precambrian, characterization by anal. pyrolysis, 84M/0681; *Pacific Ocean, San Pedro basin*, molecular fossils generated by hydrous pyrolysis in Recent sediments, 84M/4182
—, lipids, *south west African shelf*, from Holocene phosphate nodules, C-isotope destrib., relation to genesis, 84M/3055
—, methane, in marine sediments, 84M/0705; migration in sedimentary basins, isotope tracing techniques, 84M/0706; *in situ* generation in carbonate ooids, evidence, 84M/1791; photochem. in Earth's early atmosphere, 84M/2779; in mantle mineral-forming media, new data, 84M/2791; from natural gas, detn. of isotopic ratios by gas chromatography, 84M/3690
—, natural gas, implications for origin from thermal decarboxylation of acetic acid, 84M/0390; soln. with oil, viscosity at high-*P*, 84M/1170; *north east Japan*, $^3He/^4He$ ratios in CH_4-rich, possible magmatic origin, 84M/2798
—, oil, migration and retention, possible use of epoxy rock replica SEM images in study, 84M/0053; soln. with gas, viscosity at high-*P*, 84M/1170; *Scotland*, offshore deposits, 84M/0921; *China, Jiyang Depression*, Tertiary strata, geochem., 84M/1795; *Indonesia, Kalimautan, Mahakam Delta*, biol. marker study, 84M/3056; *Australia*, demethylated hopanes in crudes, petroleum geochem. application, 84M/0699; *Egypt, El-Morgan oil field*, oil-bearing formations, petr., characteristics, 84M/1086; *northern Western Desert*, primary dolomites as oils reservoirs, occurrence, significance, 84M/1087; *Canada, Alberta, Athabasca oil sand deposit, in situ* oil recovery, application of fluid-rock reaction studies, aqueous phase results for exptl. water-bitumen-shale reactions, 84M/0395; min. transformations in exptl. water-bitumen-shale reactions, 84M/0396; *USA, Michigan Basin*, comparison of crudes, comment on previous paper, 84M/0695; reply, 84M/0696; more comment, 84M/0697; *Argentina, San Jorges basin*, crudes, correlation, 84M/0685
—, —, oil fields, *China*, variation of ϕ (Z/L, x) in relation to Na, Ca, Mg concentrations in waters, 84M/4154; *North Sea, Moray Firth, Beatrice oilfield*, diagenesis in petroleum basin, use of fluid inclusions in new dating method, 84M/3640
—, —, oil shale, *Scotland*, deposits, 84M/0921; *Germany, Messel*, hydroxyacid content, geochem. indicator, 84M/0698; *Israel, Horon, Nebi Musa, Ef'e* and *Ein Boqeq basins*, origin, depositional environments and diagenesis, 84M/0686; *Australia, Queensland, Julia Creek*, microscopic petr., 84M/1097; *USA, Green River*, hydroxyacid content, geochem. indicator, 84M/0698; ammonium-nitrogen in, 84M/3049; *USA, Colorado*, salt movement in fine-textured, processed, under semi-arid conditions, 84M/1524
—, olefins, sorption, isomerization on cross-linked, simply exchanged montmorillonites, 84M/1318
—, petroleum, classification, thermal history based on light hydrocarbons, 84M/0680; occurrence in carbonate sediments, relation to organic matter content, 84M/0704; *Japan*, Neogene sedimentary basin geochem., primary migration, 84M/0702; *Nigeria, Anambra basin, Akukwa-2 well*, Cretaceous, Tertiary shales, petroleum geochem., 84M/1793; *Atlantic Ocean, southern Santos Basin*, geochem., 84M/0682
—, porphyrins, unnamed petroporphyrin from oil shale, structure, 84M/3855
—, quinoline, adsorption from aqueous soln. by montmorillonite, 84M/1317
—, steranes, *USA, Oklahoma, Ouachita Mtns.*, in solid bitumen pyrolyzates, distrib., changes with crude oil biodegradation, 84M/0677
—, sterols, *Black Sea*, free, esterified, residual bound in Unit I sediments, 84M/0678
—, terpanes, tricyclic, ident. of series from C_{19} to C_{45}, 84M/3051
—, triterpanes, C_{27} and C_{28} in sediments, petroleum, mass spectral characterization, 84M/0700
Hydrochloric acid *v.* acids, hydrochloric
Hydrofluoric acid *v.* acids, hydrofluoric
Hydrogen, atomic ratios in fuel minerals and precursors, new method of comparison, 84M/1802; *Oman*, generation from mantle source rocks, 84M/2799; in mantle mineral-forming media, new data, 84M/2791; atom positions in kaolinite by neutron profile refinement, 84M/3732; *P*-induced IR spectra to 542 kbar, 84M/3954; dilute in water at high-*T*, *P*, fugacity-concentration relationship, 84M/3953
—, compounds, HCl, thermochem., 84M/1583; hydrogen chloride and fluoride, solubility of Au at $P = 1000$ kg/cm^2, 84M/2681; H_2S, adsorption by clinoptilolite, 84M/2284; H_2S, diagenesis of carbohydrates by, 84M/3052
—, isotopes, fractionation assoc. with goethite dehydration, 84M/2691; D/M ratios in interplanetary dust, lab. measurements, 84M/3079; use in studying groundwater flow, discharge, 84M/3297; exchange between amphibole and water, 84M/4025; evidence for rhyolitic magma degassing during shallow intrusion, eruption, 84M/4097; *USSR, Ukrainian Shield*, compn. in coexisting biotite, amphiboles, relationship with Fe content, 84M/0522; *Israel, Negev Desert*, D content in rain-water, relationship with air mass trajectories, 84M/1776; *China, Xizang, Yangbajain*, tritium content, H stable isotope compn. of geothermal waters, 84M/4166; *USA, Utah, Notch Peak*, variations in granitic rocks, vapour phase exsolutions as controlling factor, 84M/2946; *south Atlantic Ocean*, anthropogenic tritium in bottom water, 84M/2629; *Pacific Ocean, Costa Rica rift*, compn. in basalts, 84M/2189
Hydromagnesite, conversion to magnesite/brucite at 150°–200°C with and without water, 84M/0435
Hydrosodalite *v.* sodalite
Hydrotalcite, anion exchange in, 84M/2698; *Japan, Kumamoto Pref., Mashiki town*, occurrence, X-ray data, 84M/4589
Hydrotalc-like minerals, anion exchange props., 84M/4028
Hydrothermal alteration, use of IR remote sensing to delineate mineralized zones, 84M/0243; assessment, use of multispectral scanner images, 84M/0244; *England, Derbyshire, Ible*, dolerite wallrock within sill, 84M/4473; *Scotland, Isle of Skye, Sconser quarry*, of Tertiary basic sill, element mobility during, 84M/0619; *USA, Wyoming, Yellowstone Natl. Park*, of analcite, selective Cs concentration during, 84M/0523
—, chimneys, *Ireland, Silvermines deposits*, pyritic, significance, comparison with Pacific Ocean, 84M/1453; *Pacific Ocean, East Pacific Rise, 21°N*, 'black smokers', growth history, 84M/2562
—, deposits, genesis, discussion, 84M/3872; *Pacific Ocean, Galapagos rift zone*, min., geochem. of major components, 84M/2165; *Loihi seamount*, geochem., 84M/3441
—, environments, *Pacific Ocean, East Pacific Rise*, chem. behaviour of sphalerite, arsenopyrite, 84M/0851
—, reactions, of Sn during skarn formation, 84M/3859
—, solutions, *Pacific Ocean, East Pacific Rise, 13°N*, chem., 84M/4168
—, systems, speciation of Hg in, application to ore deposition, 84M/3952
—, veins, *Spain, Jaén, Valdohornillo*, in dolerite, 84M/3500
—, vents, *Pacific Ocean, Juan de Fuca ridge*, active, 84M/0293; *East Pacific Rise, 13°N*, *RE* elements, U in high-*T* solns., 84M/4091
Hydrothermally altered rocks, *New Zealand, Wairakei* and *Broadlands geothermal fields*, rare alkali content, 84M/0658
Hydrotungstite, *Bulgaria, Grânčarica deposit*, first Bulgarian occurrence, data, 84M/0842
Hydroxides, applications of anion exchange in takovite, 84M/2698; divalent metal brucite-like, structural and IR relations, 84M/3835

Hydrozincite, *Germany*, *Clara mine*, new find, 84M/4559

IBERIAN PENINSULA, massive sulphide mineralization, geochem. proximity indicators in pyrite belt, East Pontic metallotect, 84M/1810; massive sulphide exploration in pyrite belt, new paths, 84M/2566; spilitic rocks in pyrite belt, origin, isotopic evidence, 84M/2994; *Oporto* (*Portugal*) to *Zarza la Mayor* (*Spain*), magmatic arc in Hercynian chain, 84M/3351

Ice, crystals, detection in Saturn's rings, on Jupiter's satellites, 84M/3081; liquid-ice VII transformation in H_2O, observation under high-*P*, 84M/3963; *Antarctica*, Pb in prehistoric, 84M/2623

—, caps, strain patterns in, implications for strain variations in shear zones, 84M/1977;

—, sheets, *Greenland*, U isotopes in, link with Cosmos-954, 84M/3936; *v.* also glaciers

ICELAND, geothermal waters, chem., min. equilibria, variables controlling compns., 84M/0648; geothermal waters, chem. geothermometry, 84M/0649; transitional, alkali basalt glasses, phase relations, 84M/0955; spinel minerals in transitional, alkali basaltic glasses, 84M/1877; magmatic rocks and volcanic features, chem. characteristics, comparison with ocean floor, 84M/2146; volcanic glasses, He, O, Sr, Nd-isotope relationships in, 84M/2867; $CaCl_2$ brines, origin, insights from mass balance calculations, 84M/0516; *Krafla* and *Reykjanes geothermal areas*, water-rock interaction, 84M/0647; *Veidivötn*, magma mixing in fissure eruption, microprobe study, 84M/4405

ICP *v.* inductively coupled plasma spectrometry

Idaite, *Germany*, *Clara mine*, occurrence, paragenesis, 84M/4562

Iddingsite, rims on olivine, formation, TEM study, 84M/4238

Igneous activity, *USA*, *Alaska*, *Aleutian Islands*, geochron., geol. data, 84M/4439; *Peru*, *Andahuaylas-Yauri belt*, age, regional tectonic, metallogenetic implications, 84M/3899

—, complexes, thermobarometry, 84M/2862; *Finland*, *Koillismaa complex*, use of electron microprobe in study, 84M/4353; *Scotland*, *Etive complex*, origin, evolution, Sr, O, Pb-isotope evidence, 84M/2869; *Canada*, *Superior Prov.*, *Gamitagama Lake*, geochem., petrogenesis, 84M/4396

—, rocks, prediction, evaluation of ore potential, relation of rare element concentration, Clarkes, 84M/0538; mantle-derived, characterization by isotope, geochem., and element-geochem. criteria, 84M/0550; detn. of domain structure by alternating field and other methods, 84M/1155; systems with porphyry Cu-ore, vertical range, 84M/1420; applications of DTA, TG, calorimetry, 84M/2447; from ocean basins, *RE* element characteristics, 84M/2808; ultrabasic/basic from continental crust, *RE* elements in, 84M/2809; intermediate, silicic, *RE* elements in, 84M/2810; mode, min. assemblage, bulk chem. compn., co-occurrence in published descriptions, 84M/4348; of Tertiary igneous province, origin, recent ideas, 84M/4357; significance of ferrodioritic liquids in magma mixing, 84M/4363; *Greenland*, *Myggbukta* and *Kap Broer Ruys*, possible most northerly of Greenland Tertiary igneous centres, 84M/4359; *Norway*, *Fongen-Myllingen complex*, small scale layering in, origins, 84M/0956; *Scotland*, Carboniferous-Permian, 84M/0916; Tertiary, 84M/0919; *Black Stockarton Moor complex*, geol., 84M/0957; *Italy*, *western Sicily*, silicic segregations from basaltic magma, mechanism, 84M/0965; *Yugoslavia*, *Montenegro*, intermediate, contribution to source material for red bauxites, 84M/4141; *India*, *Rajasthan*, *Malani*, evidence for hot-spot magmatism, cratonization, 84M/4386; *Japan*, *Rhyohaku Mtns.*, *Okumino complex*, igneous activity in Cretaceous acid igneous complex, 84M/4389; *Western Australia*, *Yilgarn block*, *Eucalyptus area*, intrusion, relative timing of, 84M/3386; *Victoria*, *Upper Murray Valley*, high-Si Silurian, geol., geochem., origin, 84M/4114; *New Hebrides* (*Vanuatu*), from subducted plate, Sr-isotopes, K, Rb, Sr balance, 84M/0514; *Egypt*, *Egyptian Shield*, Pb-isotope systematics, 84M/0021; *Mauritius*, *Port Louis area*, 84M/0990; *Argentina*, *Garrapta quarry*, basic, suitability for use in concrete, 84M/1018; *Antarctica*, *northern Prince Charles Mtns.*, mafic, geochem., 84M/4116; *north east Pacific Ocean* and *Gulf of California*, Sr, Nd-isotope geochem., 84M/2917

Ignimbrite, in mixed pumice eruptions, field characteristics, 84M/1044; *Australia*, *NSW*, *Currabubula formation*, outflow sheets from late Carboniferous calderas, 84M/3431; *New Zealand*, *Matahina*, post-depositional changes in, SEM study, 84M/1031

—, -forming melts *v.* melts, ignimbritic

Iimoriite, *USA*, *Alaska*, *Prince of Wales Island*, *Bokan Mtn.*, new occurrence, new data, 84M/4213

Ikaite growth under high-P_{H_2O}, observation, 84M/3963; *Antarctica*, *Bransfield Strait*, crystal structure, refinement, 84M/1400

Ikunolite, *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485

Illite *v.* mica

Ilmenite, from basic, ultrabasic rocks, geochem. features, 84M/0826; from various igneous rock associations, distrib. of La, Ce, Sm, Eu, Tb, Yb, Lu in, 84M/1667; synthetic, structure at high-*T*, *P*, 84M/3823; from layered complexes, Pd, Pt, Ir, Au content, 84M/4249; potential of IR spectroscopy in studying, 84M/4535; *USSR*, *Yakutia*, from kimberlites, compn.-structure-props., dependences, min. significance, 84M/1873; *Malo-Botuoba region*, grains from kimberlite pipes, thermoelectromotive force, measurement, 84M/3581; *Czechoslovakia*, *Javarie Mtns.*, occurrence, 84M/0254; *Zlaté Hory*, rutilization of, 84M/1874; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075; *China*, from kimberlites, prelim. microprobe study, 84M/4292; *Japan*, *Kii Peninsula*, in granitic rocks, paragenesis, 84M/1891; *West Africa*, nodules in kimberlite, clue to redox state of upper mantle, 84M/2820; *southern Africa* and *Solomon Islands*, megacrysts in kimberlites, alnöitic breccia, intrinsic f_{O_2}, upper mantle implications, 84M/4383; *South Africa*, *Benfontein sill* and *Premier* and *Wesselton mines*, anals., evidence for alleged kimberlite-carbonatite relationship, 84M/3371; *Brazil*, *Jacupiranga complex*, Mg-, Mn-, Nb-rich from carbonatites, 84M/3193

Ilvaite, crystal chem., application of Mössbauer and opt. emission spectroscopy to Fe detection, 84M/0149; *Greenland*, *Skaergaard intrusion*, alteration replacing olivine, 84M/3137; *Norway*, *Rogaland*, secondary in dolerite dyke, anal., 84M/4224; *Japan*, *Tsumo*, and *USSR*, *Techukhe*, polymorphism, X-ray study, 84M/1364

Imogolite *v.* allophane

INAA *v.* neutron activation analysis

INDIA, geol. of (book), 84M/0080; min. resources, (book), 84M/0083; Precambrian stratigraphy, geochron., synopsis, 84M/0942; minerals used in medicine, 84M/1527; zircons from various geol. environments, tr. element characteristics, *RE* element patterns, partition coefficients, 84M/2842; radioactive heat generation in Precambrian granitic rocks, 84M/3590; conglomerates of Middle Andaman, geol. significance, 84M/4457; *central*, tholeiites from Deccan Trap lavas, tr. element geochem., 84M/2897; *north west*, metasedimentary enclaves from Archaean gneiss complex, min. parageneses, metamorphic reactions, 84M/3546; *south*, chromiferous quartzites, min., 84M/0769; Archaean granulite-facies rocks, element depletion in, 84M/1773; *west*, basalt minerals especially zeolites, survey, 84M/4572; *Bhima basin*, problematic *Chuaria*, significance, 84M/4620; *Dharwar craton*, unusual early Archaean sediments, geochem., 84M/2972; *Dharwar Craton*, *Kolar*, Au deposit, genetic features, 84M/3883; *Eastern Ghats orogenic belt*, alkaline rocks, lithology, geochem., geochron., 84M/2030; *Indoburman orogenic belt*, ophiolite complexes, occurrence, 84M/1048; *Son Valley area*, *Kheinjua formation*, microbial fossils, 84M/3617

—, ANDHRA PRADESH, *Chimalpahad complex*, plagioclases, hornblendes from anorthosite, anals., petr., 84M/3179; *Mangapeta area*, volcanogenic rocks, 84M/3428; *Prakasam dist*, *Kanigiri area*, rare-metal mineralization in granitic rocks, 84M/0575; *Prakasam dist.*, *Elchuru*, Proterozoic mafic alkaline rocks, geochem., 84M/2029; *Ranchi Bihar*, *Belkuba dist.*, Fe^{2+}/Fe^{3+} in Cr-spinel, chromite, distrib. mechanism, 84M/0831; *Vishakhapatnam dist.*, *Padera*, grandidierite, sapphirine, kornerupine, occurrence, 84M/0770

—, ASSAM, *Barail* and *Tipam*, reservoir sands, clay mineral studies, 84M/3764

—, BIHAR, *Hazaribagh dist.*, *Pokharia mine*, biotite, fission-track annealing expts., 84M/4234; *Panchet dam area*, anatectic migmatites, petr., geochem., 84M/4493; *Rajmahal Hills*, lava flow, *T*, f_{O_2}, 84M/0993; *Rohtas dist.*, *Amjhore*, pyrite, black shales, geochem., 84M/2824; *Singhbhum shear zone*, U mineralization, ore mineralogy, petrog., 84M/0264; metabasics of Dalma volcanic belt, petrography, chem.

INDIA, BIHAR (*contd.*)
petr., 84M/0636; U mineralization, occurrence of 'brannerite', 84M/0835; U mineralization, nature of U occurences in apatite-magnetite rocks, 84M/1469; U mineralization, origin, geol. time frame, 84M/1470; *West Singhbhum, Chakradharpur complex*, granite-gneiss complex, geochem., 84M/4111
—, GOA, *Calangute bench*, heavy minerals in sediments, 84M/3481
—, GUJARAT, *Amba Dongar mine*, fluorite thermoluminescence glow peaks, 84M/3574; *Ambamata-Deri area*, pyrite from polymetallic deposit, tr. element content, habit, texture, 84M/0528
—, HARYANA, *Narnaul*, deformation structures in pegmatite, aplite, quartz veins, 84M/1134; *Tosham igneous complex*, ring dyke and assoc. rocks, geol., mechanism of emplacement, 84M/3375; evidence for ring structures, cauldron subsidences, 84M/3376
—, HIMACHAL PRADESH, *Chamba area, Dhauladhar batholith*, xenoliths, petrogenic significance, 84M/3506
—, HIMALAYA REGION *v.* HIMALAYAS
—, JAMMU and KASHMIR, Quaternary pedogenic carbonates, comparative petr., 84M/1332; *Doda region*, volcanic rocks in Salkhala group, tectonic significance, 84M/3374; *Ladakh, Dras area*, basic, ultrabasic rocks, petr., chem. characteristics, 84M/2114; *Dras volcanics, Indus* and *Shyok ophiolites*, comparison, 84M/3460
—, KARNATAKA, Archaean metavolcanics, petrogenesis, setting, 84M/0637; basement gneisses, Rb/Sr, Pb/Pb ages, 84M/2346; Peninsular Gneiss, Dharwar volcanic rocks, Chitradurga granite, petr., chem., isotopic ages, 84M/3655; *western*, Archaean rocks, Sm/Nd, Rb/Sr ages, 84M/0024; *Chiknayakanhalli dist.*, carbonates, anals., DTA, 84M/4275; *Closepet granites*, origin, implications for southern Karnataka crustal evolution, 84M/4494; *Kabbaldurga*, charnockite formation and granite production, link, evidence, 84M/2248; *Kabbaldurga quarry*, allanite, age of, 84M/3656; *Mysore dist.*, magnesite deposits, mode of occurrence, origin, 84M/0297; *Mysore dist., Doddakanya*, formation of basic scapolite-garnet-pyroxene granulite, min. chem., *P-T* conditions, 84M/2266; *North Kanara* and *Kumsi*, quartzo-feldspathic schists/phyllites with Mn-formations, petr., 84M/2267; *Raichur dist., Gurgunta schist belt*, geol., 84M/1135; *Sargur terrain, P-T* estimates of basic granulites, metamorphism conditions, comment on previous paper, 84M/1136
—, KERALA, clay min. distrib. on continental shelf and slope, 84M/1333; opaline silica in Tertiary sediments, 84M/2219; fuchsite-bearing quartzite, 84M/4496; *central*, early Palaeozoic I-type granite, bearing on possible mineralization, 84M/3377; *Cannanore dist., Peralimala granite*, petr., chem., tectonic significance, 84M/3378; *Munnar*, alkali granite, geochem., petrogenesis, bearing on rift tectonics, 84M/2895; *Palghat dist., Agali area*, basic dykes, geochem., petrogenesis, 84M/1727; *Quilon dist.*, cordierite-bearing gneiss, structure, metamorphic characteristics, 84M/4497; *Quilon limestone*, early diagenetic glauconite-pyrite assemblage, significance, genesis, 84M/1094; *Trivandrum area*, chrysoberyl pegmatites, genesis, relation to regional tectonic evolution, 84M/2268
—, MADHYA PRADESH, *Chhindwara dist., Chalka-Delakhari sill*, magma mixing in, 84M/2027
—, MAHARASHTRA, *Lonar crater*, endogenic or meteorite origin, comment on previous paper, 84M/1821
—, ORISSA, *Keonjhar dist., Surgutaria* siliciclastic rocks, petr., 84M/1093; *Mayurbhanj, Karanjia, Singhbhum granite*, interrelationship between two granitic units, 84M/2028; *Mayurbhanj dist., Kumhardubi* and *Betjharan*, vanadiferous magnetite deposits, geochem., 84M/4075; *Sundergarh dist., Sargipalli Pb-Zn mine*, computer-assisted trend surface mapping, use, 84M/1806
—, RAJASTHAN, Quaternary pedogenic carbonates, comparative petr., 84M/1332; *Barr conglomerate*, recognition, stratigraphical significance, 84M/2218; *Bhilwara dist., Karera*, polymineralic paragneisses, metamorphic conditions, petrogenesis, 84M/3548; *Malani*, igneous suite, evidence for hot-spot magmatism, cratonization, 84M/4386; *Rajpura Dariba*, mineral 'MZ' in diaphorite series, microprobe data, 84M/3209; *Sirohi dist., Pipela area*, pillow structure, metahyaloclastite breccia, occurrence in amphibolites, 84M/3549; *Udaipur dist., Batia area*, generalized structural, metamorphic map, study, 84M/3547; *Udaipur, Zawar*, primary vegetative growth on mine tailings, 84M/1526
—, TAMIL NADU, *Bodinayakkanus area*, granulite facies transition zone, role of fluids in development, 84M/1137; *Madurai, Panrimalai*, sapphirine and sillimanite + orthopyroxene rock, petr., 84M/4495; *Salem*, goethite in bauxite, isomorphous substitution of Al in 84M/1880; *Salem*, coexisting phases from shonkinitic rocks, min. chem., 84M/3379
—, UTTAR PRADESH, *Almora* and *Chamoli dist.*, occurrence of scheelite, origin, 84M/1468; *Mirzapur dist., Son Valley*, ash, tuff cone structures in Porcellanite formation, 84M/1028; *Naga Hills*, ophiolites and assoc. mineralization, 84M/2143; *Nagaland ophiolites*, subduction zone ophiolite complex in Tethyan orogenic belt, 84M/2115
INDIAN OCEAN, Th content of bottom sediments, 84M/0608; La accumulation on sea-floor, absolute rate, 84M/1762; asbolan and mixed-layer asbolan-buserite in Fe-Mn concretions, 84M/1885; basalts, Pb-isotope variations, mixing phenomena, 84M/2898; *central* and *eastern*, ^{210}Po, ^{210}Pb distribs., 84M/3024; *Southwest Indian Ridge, Bouvet triple junction to 11° East*, basaltic erupted lavas, geochem., min., petrogenesis, 84M/0574; *Marie Celeste fracture zone*, rock forming minerals in gabbros, 84M/1049; *Mid Cayman Rise*, gabbros, submarine metamorphism, O-isotope study, 84M/0622; *Ninetyeast Ridge*, possible hotspot source for, 84M/1730; *Somali* and *Mozambique Basins*, clay mineral diagenesis, 84M/3772
Indium, *Czechoslovakia, Kutná Hora, Turkaňk zone*, content in sphalerite, 84M/1896
INDONESIA, kaolin containing free Al ions, surface props., 84M/2464; *Banda Sea*, age, 84M/3619; *Sunda* and *Banda*, Hf-Nd-Sr isotopes, incompatible element abundancies in island arcs, implications, 84M/4122; *Borneo* (*Kalimantan*), *Tana Laut*, erlichmanite-laurite series, chem., reflectance, cell, 84M/0858; *Kalimantan, Mahakam Delta*, coals, shales, oils, biol. marker study, 84M/3056; *Sulawesi, Tondano River*, weathering products of andesitic rocks, 84M/2489; *Sumatra, Toba Tuffs*, glass inclusions, melt compns., 84M/1030; *Toba volcano-tectonic depression*, regional geol., evolution, 84M/3318; *Timor, Boi massif*, cordierite-bearing schists, gneisses, metamorphic *P-T* conditions, tectonic implications, 84M/2272
Inductively coupled plasma spectrometry, with AAS, geol. uses, comparison with XRF anal., 84M/2435; anal. of ceramics, review, 84M/2448; use in anal. of *RE* elements, 84M/2815; emission spectroscopy with suspension aspiration for simultaneous multielement clay anal., 84M/3724
Inert gases, terrestrial, use in isotope tracer studies of primordial mantle components, 84M/0508
Infra-red spectroradiometry, *USA, Arizona, Oatman mining dist.*, use of high-resolution in alteration mineralogical mapping, 84M/0239
—, adsorption spectrometry, OH presence in natural barrerite and phases B, D, 84M/0181; use in characterization of natural and synthetic clay catalytic props., 84M/1264; adsorbed water on reduced charge Na-, Li-montmorillonite, 84M/1306; use in distinguishing natural, synthetic amethyst, 84M/1641; for differentiating untreated and treated (plastic impregnated) ceruleite, 84M/1649, 84M/1650; use in characterizing hazardous wastes, 84M/2390; clay minerals, glass-slide reflection method, 84M/2461; OH-stretch bands in K-micas, talcs, saponites, influences of electronic configuration, site of change compensation, 84M/2520; high-*P*, Fourier-transform spectroscopy, 84M/3676; use of non-dispersive detectors in simultaneous DTA-evolved gas anal. of minerals, 84M/3682; cell for vacuum and high-*T*, 84M/3717; near-IR spectra of H_2O molecules in smectites, vermiculites, effects of layer charge on, 84M/3728; for ident. of turquoise, 84M/4054; potential for studying ilmenite, 84M/4535; *West Carpathians*, use in detn. of K-feldspar triclinicity, 84M/0800
—, spectra, Ni-bearing clay minerals in kerolite-pimelite series, 84M/1305; phyllosilicates, polarization of H_2O molecules, relation to exchange cations, 84M/1309; thiolane, tetramethylene sulphoxide adsorbed on montmorillonite, 84M/1316; cation distrib. in tirodite-dannemorite series, 84M/1368; natural chrysotile asbestos, 84M/2521; leadhillite, susannite, macphersonite, absorption spectra, 84M/2546; absorption spectra of amphiboles, ident. of

Infra-red spectra (*contd.*)
OH bands in, 84M/3149; forsterite, fayalite, high-*P* Fourier-transform spectra, 84M/3790; synthetic malachite, 84M/3847; hydrogen, *P*-induced spectra to 542 kbar, 84M/3954
Interplanetary dust, D/H ratios in, lab. measurements, 84M/3079; enstatite whiskers, platelets in, evidence of vapour phase growth, 84M/3085
Intrusions, net-veined ring type, origin, 84M/3328; magmatic, influence on shale diagenesis, 84M/3503; *Greenland, Skaergaard*, petr. of upper border series, 84M/3337; *Scotland, Rhum*, cyclic unit in, isotope and geochem. evidence for, 84M/4104; mixing of supernatant and interstitial fluids in, 84M/4360; *USSR, Noril'sk area*, layered mafic/ultramafic, primary inclusions in olivine from, 84M/4373; *south China*, granitic, U potential, evaluation, application of fuzzy set method, 84M/1693; *Western Australia, Yilgarn block, Eucalyptus area*, igneous, relative timing of, 84M/3386; *Algeria, Aïn-Barbar dist.*, hydrothermal alteration, K/Ar dating, 84M/1211; *Canada, North West Territories, Muskox intrusion*, timing of emplacement, constraints, 84M/1008; *USA, Colorado, Stony Mtn. complex*, multiple hydrothermal circulation systems, cooling history, O-isotope depletion patterns, 84M/1736
Intrusive rocks, *USSR, Noril'sk area*, layered metalliferous, mechanism of formation, 84M/4372; *Ireland, south west Co. Wexford*, Lower Palaeozoic, age relationships, 84M/3348; *Bulgaria, Malko Târnovo*, structure, importance for Cu mineralization localization, 84M/1489; *Australia, NSW, Cobar Lucknow area*, Silurian I-type, age, basement/cover relations, 84M/3661; *Western Australia, Agnew Dome*, Archaean acid, geochem., crustal origin, 84M/4115; *Golden Grove Cu-Zn deposit*, effects of metasomatism, development of quartz 'eyes', 84M/1498; *New Zealand, south D'Urville Island*, closed-system fractionation beneath slow-spreading ridge, 84M/4435; *Canada, British Columbia, Okanogan Lake region*, Palaeozoic (?), Mesozoic, Cainozoic, Rb/Sr dating, 84M/2359; *USA, Washington, Holden* and *Lucerne quadrangles*, relation of depth zones, compn., textures, emplacement of plutons, 84M/3394; *South Shetland Islands, King George Island*, 'Andean', K/Ar ages, 84M/2355
Iodides, polytypes of CdI, struct. of 5 large-period, 84M/0206; polytypes of CdI, structures of 20 new, 84M/0207; CdI_2, 20 new polytypes, structures, 84M/1408; LiI soln. at elevated *T*, *P*, hydration shell structures, 84M/2648
Iodine, detn. in USGS standard marine mud (MAG-1), 84M/0717; chalcophile nature, evidence, 84M/4063; *USA, east coast*, remineralization in terrigenous near-shore sediments, 84M/2981
—, isotopes, ^{129}I in lunar rock, meteorites, measurement by tandem accelerator mass spectrometry, 84M/3114
Ion microprobe, evaluation, application to Sr-isotope geochem. in carbonates, 84M/2836; performance characteristics of Panurge, measurement of Mg in Allende meteorite inclusions, 84M/3098
IRAN, Fe ores, major-, trace-element data, 84M/1680; *north east Azerbaijan*, K-, Ag-exchanged natural chabazite, cation site location in, 84M/1385; *Kouh-e-Shahsavaran massif*, recent volcanic formations, petr., structural implications, 84M/1026; *Qal'eh Hasan Ali*, maars, petr., geol., 84M/3426; *Sabsevar zone*, ophiolites, major element geochem., 84M/2107; *Talmessi* and *Meskani*, Cu-Ni-Co-U ore deposits, geol., min., 84M/3882; *Zagros geosyncline*, variations in tectonic styles, relation to salt diapirism, 84M/1995; *Zagros range, Neyriz complex*, ultramafic, mafic cumulates in ophiolitic complex, 84M/2106; *Neyriz region*, disrupted Tethyan ophiolites, 84M/2094
IRAQ, sand, gravel, carbonate resources for concrete, alkali reactivity, 84M/0302; distrib. of Cr, Ni, Cu, Zn, Sr, Rb in rocks; 84M/0605; Euphrates and Jeribe Miocene formations, petr., min. of selected parts, 84M/1090; petr., min. studies of Lower Bakhtiari formation, 84M/1091; *north-northeast*, min., geochem. differentiation in claystones, sandstones, 84M/0607; *Gaara area*, kaolinitic clays, min., geochem., origin, 84M/0606; *Makhmour area*, carbonate reef/non-reef facies, geochem, 84M/0604; *Tel-Kutha*, archaeological prospecting, application of geochem., geophys. techniques, 84M/0331; *Western Desert*, quartz geodes, min., possible origin, 84M/0807; Campanian-Maastrichtian phosphorites, 84M/1510; reservoir characteristics of rocks beneath concealed unconformities, effects of epidiagenesis on, 84M/4454
IRELAND, rapid subsidence and early Carboniferous base-metal mineralization, 84M/0249; mineral exploration, progress and developments 1971–1981, (book), 84M/1258; trends in Irish Mineral Industry 1971–81, role of Geol. Survey, 84M/1438; employment, expenditure in mineral exploration 1971–81, 84M/1439; further base-metal discoveries, application of probability theory, 84M/1440; mineralization in ORS, significance to exploration, 84M/1441; changing face of min. exploration, Emmel Castle case history, 84M/1444; current geophys. exploration techniques, review, 84M/1449; geochem. exploration techniques, review, 84M/1450; postulated Lower Carboniferous rift, possible metallogenic consequences, 84M/1451; impact of agriculture on groundwater quality, 84M/1530; deep drilling in since 1947; 84M/1990; Newer Caledonian granites, radio-element geochem., 84M/2873; reconnaissance radiometric survey, 84M/3035; mineral deposits, annotated bibliog., (book), 84M/3692; Dalradian slides, possible origin as extensional faults, 84M/4311; *north west*, fracture-controlled feldspar shape fabrics, in deformed granite, 84M/4366; *west*, quartz veins and devolatization during metamorphism, 84M/0632; *western*, basic volcanic rocks of South Connemara group, petr., chem., 84M/0960; *Irish continental shelf*, compilation magnetic map, 84M/3309; *Castlecomer plateau*, groundwater resources, 84M/3010; *Leinster granite*, marginal sulphide mineralization, stable isotope studies, relationship to aureole coticules/tourmalinites, 84M/1683; γ-radiometric survey of northern units, 84M/2874; hydrothermal phenomena within, relationship to crustal fractures, Landsat study, 84M/3346; *Leinster batholith, Lugnaquillia pluton*, geol., 84M/3347
—, CO. ANTRIM, Dalradian albite porphyroblast schists, petrogenesis, 84M/1122; *Giant's Causeway*, formation, new model, 84M/3345; *Larne no. 2 borehole*, discovery of new Permian volcanic centre, 84M/1991; *Tardree Mtn.*, low tridymite, space group, 84M/0808; *Tieveragh*, pyrometamorphism and contamination of basaltic magma, 84M/3307
—, CONNEMARA, high-grade metamorphic rocks, fluid inclusion studies, 84M/1774; Dalradian rocks, major southward thrusting, 84M/3526; persistence of early planar fabrics in polydeformed pelitic schists, model, 84M/4487
—, CO. CORK, *Church Bay anticline*, cleavage geometry, development, 84M/4312
—, CO. GALWAY, *Tynagh mine*, supergene processes in Pb-Zn-Ag sulphides in carbonates, 84M/2558
—, CO. KERRY, *Lough Guitane complex*, contemporaneous faulting, eruption, preservation, 84M/3308
—, CO. KILDARE, *Harberton Bridge*, breccia-hosted Zn-Pb mineralization in Carboniferous carbonates, 84M/1446
—, CO. LIMERICK, *Carricklittle prospect*, exploration, mineralization, 84M/1445
—, CO. MAYO, *Charlestown area*, new min. deposit in Ordovician volcanic sequence, discovery, 84M/1448; *Clew Bay*, separation of ortho-, para-tectonic Caledonides by ophiolitic mélange, 84M/3454; *Doolough Point area*, stanniferrous granite gneiss, occurrence, 84M/3000
—, CO. MEATH, *Navan orebody*, min. textures, metal zoning, ore environment, 84M/1442
—, CO. TIPPERARY, *Silvermines*, base-metal–baryte deposits, fluid inclusion data, 84M/1437; hydrothermal pyrite chimneys, significance, 84M/1453; fossil hydrothermil chimneys, mounds, formation, 84M/4084; *Silvermines* and *Ballynoe deposits*, regional lithostratigraphical setting, 84M/1452
—, CO. WESTMEATH, *Ballinalack Zn-Pb deposit*, lithology, petr., min., 84M/1443
—, CO. WEXFORD, *south west*, Lower Palaeozoic intrusives, age relationships, 84M/3348; *Carnsore granite*, hornfels, depth of emplacement, 84M/4474; *Duncormick*, Zn mineralization, geol. setting, 84M/1447
Iridium, variations in ratio with Os in terrestrial rocks, minerals, 84M/2822; content in Cr-spinel, ilmenite, magnetite from layered complexes, 84M/4249; *Antarctic Ocean*, enrichment in extraterrestrial particles, chem., isotope study, 84M/3116
, compounds, IrO_2, thermal expansion data, 84M/4537

Iron, detn. as Fe_2O_3, anal. method, 84M/0070; solubility and availability in soils, effect of redox, 84M/0095; occurrence in mixed valency states, review, 84M/0149; growth of magnetite scales on, dominant control, 84M/0348; colloidal, kinetics of removal from estuaries, 84M/0642; particulate in fresh-water, size distrib., 84M/0643; distrib. between ortho-, clinopyroxene in metamorphic rocks, site occupancy interpretation, 84M/0780; in aegirines, aegirine-salites, opt. and Mössbauer spectroscopy; 84M/0785; future in USA and World economy, (book), 84M/1256; extraction from soil organic matter, use of NaOCl, 84M/1284; bonds with O, bond length–bond strength relationships at any oxidation state, 84M/1355; extractable amount in setttling ponds, prediction, 84M/1516; removal from drinking water by clinoptilolite tuff, 84M/1532; distrib. in zeolites derived by hydrothermal synthesis from rhyolitic pumice, 84M/1628; total, spectrophotometric detn. in chromite ores, 84M/2414; total and reduced, spectrophotometric detn. in glass, 84M/2415; spectrophotometric detn. by flow-injection anal., 84M/2419; substitution in aluminosilicate sols synthesized at low pH, 84M/2467; distrib. in pumice and in derived zeolites, 84M/2533; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; microbial uptake, metabolism, implications for Precambrian ore deposits, 84M/2778; particulate material from seasonally anoxic lake, Mössbauer and chem. studies, 84M/2965; detn. in glass sands after decompn. by acid vapour, 84M/3684; polycations, interactions with clays, 84M/3739; translocated inorganic form in Bs podzol, extraction, 84M/3727; partitioning between melilite, olivine, clinopyroxene in lavas, 84M/4024; native, physicochem. formation conditions in igneous magmas, 84M/4093; *Norway*, *Bolstadfjord*, in waters, sediments, geochem., 84M/3937; *USSR*, *Ukrainian Shield*, content in coexisting biotite, amphiboles, relationship with H-isotope compn., 84M/0522; *Italy*, *Sardinia*, *Sant'Antioco Isthmus*, content in Plio-Pleistocene sediments, 84M/1747; *South Bulgaria*, distrib. in plagioclases from granites, 84M/0801; *Australia*, structural in kaolin, Mössbauer effects, 84M/3729; surface Fe in kaolin, Mössbauer effects, 84M/3729; *New Zealand*, *Taieri Estuary*, mixing, relation to colloid stability, surface props., 84M/0659; *Canada*, *St Lawrence Estuary*, relations with P in suspended matter, 84M/3947

—, compounds, FeAs, room- and high-*P* chem., 84M/3842; Fe^{2+} Fe^{3+} and Fe^{2+}Al hydroxycarbonate green rusts, Mössbauer spectra, 84M/2544; ferric nitrate, prepn., uses of clay supported, 84M/1270; oxides, anal. by differential XRD, use of internal standard, 84M/0059; Fe-oxides surface coatings, influence on oxidation, sorption of arsenite by MnO_2, 84M/0097; Fe_3O_4, FeO, thermopower in, measurement, interpretation, 84M/1157; Fe-oxides, surface charge and anion-adsorption props., effects of surface area and min., 84M/1300; Fe-oxides, effect on soil phosphate adsorption, 84M/1301; α-Fe_2O_3, oxygen diffusion in, 84M/2663; Fe-oxides, rapid estimation in soils, clays by spectrophotometric anal., 84M/3711; oxides, influence of coatings on clay mineral Zn adsorption, 84M/3743; synthetic oxide, hydroxide, oxyhydroxide, comparison with natural French equivalents, 84M/3989; FeO, thermal expansion data, 84M/4536; amorphous ferric oxyhydroxide, sorption of U, Ra, on, 84M/0312; Fe(III)-, Fe(II)-derived oxyhydroxides, surface areas, porosities, 84M/3703; FeS_2, Fe_3S_4, electronic structures, 84M/1391; synthetic Fe_7S_8, struct., planar faults in, 84M/0197; $Fe_3SnC_{1.3}$ phase in ternary system, microprobe study, 84M/0399; Fe-tetrahedrite, substitution of Ag into, 84M/1591; *France*, *Canonnettes*, oxy-hydroxides in bauxitic profile, min. anal., 84M/3758; *South Australia*, *offshore Port Pirie*, sulphide, formation in shallow carbonate sediments near smelter, 84M/0319

—, deposits, *USSR*, *south east Tuva*, Precambrian, metamorphism, 84M/3541; *Transbaikal*, *Kalar massif*, in anorthosite, 84M/0270; *Spain*, *Granada*, *Marquesado*, genesis, evolution, 84M/3876; *Turkey*, *Çaldağ*, lateritic, min., 84M/0260; *China*, *Anhui Prov.*, *Taochong*, genesis, 84M/3909; *Dading*, geochem. problems, 84M/3123; *Fujian Prov.*, *Makeng deposit*, submarine hydrothermal-sedimentary mineralization, geol., geochem., 84M/2848; *Gushan deposit*, formation conditions, 84M/1494; *Hebei*, *Xuanlong mine*, ore fabric, effect of blue algae on Fe enrichment, 84M/2598; *Henan Prov.*, *Wuyang region*, Zaoanzhuang type, genesis, minerogenetic characteristics, 84M/1493; *Makeng*, fluid inclusion study, mineralization implications, 84M/4086; *Nanjing-Wuhu region*, porphyrite type, mineral inclusions, re-investigation, 84M/1429; *Shandong Prov.*, *Zihe*, min. characteristics of Fe ores, wall rock alteration, 84M/3910; *USA*, *Missouri*, *Pilot Knob*, volcanic stratigraphy, 84M/1433; *Virginia*, *Mill Creek*, *Mountain Lake* and *Peters Mountain Wilderness area*, resources, 84M/1505

—, formations, Proterozoic, genesis, S-isotope evidence, 84M/0542; high-grade metamorphic, phase relations of orthopyroxene, olivine, grunerite in, 84M/1613; banded in Proterozoic greenstone belts, need for more studies, 84M/2202; metamorphosed, phase equilibria in, qualitative *T-X* (CO_2) petrogenetic grids, 84M/2250; deposition and tectonic systems, 84M/2552; banded; significance of hydrated Fe^{2+} photo-oxidation, 84M/2780; banded, and Precambrian atmospheric O, 84M/2781; hosts for Au deposits, epigenetic origin, 84M/3861; *Greenland*, *Isua*, *RE* element content, 84M/2996; *China*, *Anshan*, Early Precambrian, origin of graphites in, 84M/2577; *Western Australia*, *Hamersley*, riebeckite in, formation conditions, 84M/0465; origin of Hamersley group, 84M/3551; *South Africa*, *Kuruman* and *Griquatown*, sedimentology, 84M/4456; *Canadian Shield*, Late Archaean, S-, C-isotope studies, rise of sulphate reducing bacteria, 84M/3005; *USA*, *Lake Superior region*, Precambrian, origin, 84M/0220

—, ions, Fe^{2+} and Fe^{3+} content estimation in rock minerals by microprobe anal., possible method, 84M/0076; Fe^{3+}, distrib. between octahedral, tetrahedral sites in garnets, 84M/0156; Fe^{3+}, role in oxidation of hydrocortisone by sepiolite, palygorskite, 84M/1312; ferrous, detn. in silicate rocks, 84M/2412; Fe^{2+}, detn. in rock, soil, clay, 84M/2413; Fe(II), sorption by MnO_2 from sea-water with organic complexing agent, 84M/2672; Fe^{3+}, influence on Al distrib. in chrome spinel in equilibrium with silicate melt, 84M/2686; hydrated Fe^{2+}, photo-oxidation, significance for banded Fe formations, 84M/2780; ferric, partitioning between Cr-spinel and basic silicate melt, 84M/3973; ferric, rates of reaction with pyrite, marcasite at pH2, 84M/3992; Fe^{3+} coordination in oxidized and reduced Na-aluminosilicate glasses, Mössbauer study, 84M/4036; *India*, *Andhra Pradesh*, *Belkuba dist.*, Fe^{2+}/Fe^{3+} in Cr-spinel, chromite, distrib. mechanism in, 84M/0831

—, minerals, X-ray K-edge adsorption spectra, near edge structure, 84M/1347; *USSR*, *D'yakhtardakhskoe deposit*, unusual Fe-sulphate in cryogenic oxidation zone, data, 84M/0864; *Belgium*, sulphides from Pb/Zn vein deposits, Tl, Ni, Co. tr. elements in, 84M/1897

—, ores, tr. amounts of *RE* elements, separation, detn., 84M/1246; *Norway*, *Telemark*, *Fen complex*, petr., chem., evolution, equilibrium conditions, 84M/1435; *central Sweden*, chem. compn. of magnetite, sphalerite in, 84M/0832; *Bergslagen* and *Norrbotten dists.*, Precambrian, ferride geochem., 84M/1680; *Scotland*, deposits, 84M/0921; *Portugal*, *Moncorvo*, sample anal., detailed scheme, 84M/3066; *Arabian Peninsula*, deposition in space and time, 84M/0263; *Egypt*, *El Gedida*, discovery, origin, lithology, 84M/0284; *China*, *Fujian*, Makeng type calcic-skarn Fe deposits, 84M/2576; *central Shandong Prov.*, Zihe type deposits, lithofacies, mechanism of formation, 84M/2575

Iron barringerite, *China*, first terrestrial occurrence, props., 84M/1871

Iron eitelite *v.* eitelite

Iron-group elements, *West Carpathians*, in metabasites, geochem., 84M/0635

—, manganese concretions *v.* concretions

—, nickel deposits, supergene, ore associations, 84M/1422

—, sepiolite *v.* sepiolite, iron-,

—, silicon alloys, growth of magnetite scales on, dominant control, 84M/0348

Ironstones, origin of berthierine in, 84M/1298; *Egypt*, bands/nodules in Dakhla shale formation, genesis, 84M/1088

ISRAEL, *Mediterranean coastal plain*, oilfield brines, history, Sr-isotope evidence, 84M/0656; *southern Coastal Plain*, continental brackish waters, hydrogeochem., 84M/3013; *Ashqelon area*, annual cycle of O, C-isotope ratios in landsnail shells, 84M/1739; *Ghareb formation*, bitumens, pyrolyzates in Upper Cretaceous bituminous chalk, biol. markers in, 84M/4175; *Horon*, *Nebi Musa*, *Ef'e* and *Ein Boqeq basins*, origin, depositional environments and diagenesis of oil shales, evaluation, 84M/0686; *Hula basin*, Pleistocene subsidence,

ISRAEL (*contd.*)
sedimentation, rate, comparison with others, 84M/2214; *Judean Hills*, platform dolomites, origin, new evidence, 84M/1089; *Negev Desert*, relationship between rain-water ^{18}O, D contents and air mass trajectories, 84M/1776
Isotopes, use in geol., hydrogeol., Intl. Symposium papers, 84M/3297
ITALY, clay min. of Andosols, origin, 84M/0139; rare Mn minerals, occurrences, 84M/2313; *north*, spheroids at Cretaceous-Tertiary boundary, result of extraterrestrial impact, 84M/1819; *Lake Maggiore*, vivianite formation in sediments, Mössbauer, chem. studies, 84M/3225; *Po River area*, positive correlation of volcanic activity and surface runoff, 84M/4410; *Vincentino area*, *Trentini* and *La Veneziana mines*, Zn, Cu, Pb, Fe, Ag, sulphides, namuwite, occurrences, 84M/3603; *Vrica section*, Plio-Pleistocene boundary, age, 84M/3649; *eastern Alps*, cumulate-like textures, chem. relationships in Bressanone granodiorite, 84M/2021; *north western Alps*, calc-alkaline, shoshonitic, ultrapotassic volcanic rocks, petrogenesis, 84M/4106; *Maritime Alps*, pumpellyite in low-grade metamorphic rocks, 84M/3132; *Monte Alpe*, sursassite, crystal structure, stacking disorder, intergrowth with pumpellyite, 84M/3795; *Alps*, *Ivrea-Verbano layered complex*, chromian spinel, occurrence, 84M/3195; *Ivrea zone*, *Finero*, sapphirine-bearing rocks along gabbro-lherzolite contact, bulk compn., min. paragenesis, 84M/3537; *Alps*, *Miage Glacier*, xenotime crystals, new find, 84M/4566; *Alps*, *Sesia-Lanzo zone*, amphiboles from eclogitised rocks, crystal-chem. evolution, 84M/3145; phengitic micas of successive foliations, chem. variations, 84M/3153; *Rhaetic Alps*, *Chiavenna*, chiavennite, new mineral, 84M/0880; *Apennines*, soluble/insoluble organic matter in the Livello Bonarelli shale, 84M/0701; *northern Apennines*, gabbroic complexes from ophiolites, chem., petr., 84M/2096; ophiolites, petr., comparison with Tethyan, 84M/2097; *Ligurian* and *Lucanian Appenines*, pumpellyite in low-grade metamorphic rocks, 84M/3132
—, BASILICATA, *Lucania*, *Lagonegro*, chert-dolomite laminations from Triassic silicious limestones, 84M/2209
—, CALABRIA, pumpellyite in low-grade metamorphic rocks, 84M/3132; *southern*, felsic granulites, metapelites, metabasics, ultramafics, metacarbonates, petr., 84M/3538; *Calabria-Peloritani arc*, peraluminous granites, geochem. data, principal component and discriminant anal., 84M/2883; remnants of Hercynian orogen, review, 84M/3001; peraluminous granitic suite, 84M/3353; Hercynian and pre-Hercynian magmatism, 84M/3354; *Serre*, granulite-amphibolite facies metasediments, protoliths, processes controlling chem., 84M/0634
—, CAMPANIA, *Phlegrean Fields*, chem. variations in Ca-clinopyroxenes, implications for petrogenetic processes in magma chambers, 84M/0781; phillipsite from yellow tuffs, chem., XRD, DTA, 84M/1864; inflation and microearthquake activity, 84M/3422; *Phlegrean Fields*, *Procida Island*, stevensite pseudomorphs after periclase, 84M/2483; *Piana di Paestum*, mineralized springs, geochem., 84M/1783; *Roccamonfina volcano*, white trachytic tuff, 84M/3421; *Roccamonfina volcano*, distrib., behaviour of Li in K-alkaline rocks, 84M/4108; *Mt. Vesuvius*, clinopyroxene ejecta, petr., 84M/4409; meionite, pleonaste, pyroxene, new finds, 84M/4566; *Monte Somma*, sarcolite, history of discovery, Sr and F content, new formula, props., 84M/1919
—, ELBA, quartz crystals, development of characteristic form, 84M/2312; *Elba*, *M. Capanne*, polyphase metamorphism in granodiorite contact zone, 84M/1128
—, EMILIA ROMAGNA, *Bologna*, *Lizzano in Belvedere*, 14Å clay min. in podzolic soil, characteristics, 84M/0135; *Taro* and *Ceno Valleys*, corrensite-like minerals, props., 84M/2477
—, LAZIO, *Rome*, *Alban Hills*, melilites of ejecta and lavas, opt., EM, XRD studies, 84M/4216; *Cesano geothermal field*, görgeyite and syngenite, occurrence, props., 84M/1906; *Mt. Cimino*, thermally metamorphosed inclusions in lavas, petrography, chem., 84M/2234; *Vulsini*, *Montefiascone area*, clinopyroxenes in magmatic K-alkaline suite, chem. evolution, 84M/3138
—, LIGURIA, geol., mineralogy, maps (book), 84M/0086; Au in ophiolites, 84M/2144; rodingite in basaltic rocks in serpentinites, development, 84M/3502; *Bracco ophiolites*, (Mn^{2+})-pumpellyite, occurrence, min., chem., 84M/3131; *Gruppo di Voltri*, high-*P* Eo-Alpine parageneses in magnesian metagabbros, 84M/2233; *Genoa*, *Monte Bregaceto*, large platy brookite crystals, 84M/4566
—, LOMBARDIA, *Adamello massif*, biotite from dioritic to granodioritic rocks, crystal chem., 84M/1851; *Como*, *Dervio-Colico road tunnel*, hydrocarbon-bearing cordierite, 84M/3135; *Gargano*, *Punta delle Pietre Nere*, pyroxenes from alkaline subvolcanites, crystallization trends, 84M/3139; mafic minerals from subvolcanites, petr. significance, 84M/3355
—, PIEMONTE, *Balmuccia peridotite*, evidence for differentiation of partial melts in mantle, 84M/0963; *Cottian Alps*, *Monviso complex*, ophiolite complex, lithology, 84M/2098; *Novara*, *Baveno*, mineralization, description, 84M/2310; *Peveragno*, *Priet* and *Novarra*, U deposits, excursion details, maps, 84M/1457; *Piemonte Alps*, *Baceno*, bicoloured anatase crystals, 84M/4566; *Val d'Ala*, vesuvianite with *P*4/n symmetry, crystal structure, 84M/2507
—, SARDINIA, Y, La, Mn geochem. in fluorite deposits, 84M/0532; galena ores, Pb-isotopic compn., 84M/1674; Pliocene-Pleistocene volcanism, geochron., magmatic character, 84M/3420; *Capo Spartivento*, metamorphism of mica schists surrounding granite, 84M/2235; *Monastir*, ferrierite, occurrence, XRD, 84M/3183; *Monteponi*, fake phosgenite specimens, 84M/3604; *Mt. Seda Oro*, calc-alkaline rocks, min-evolution, 84M/4371; *Sant'Antioco Isthmus*, Fe, Mn, Zn, Pb content in Plio-Pleistocene sediments, 84M/1747; *Sulcis*, ore bodies in carbonate rocks, structural setting, genesis, 84M/1459
—, SICILY, Miocene carbonate sediments, petr., palaeoenvironment, evidence for periodic emergence, 84M/1078; zeolites assoc. with montmorillonite, silica phases in Miocene deposits, origin, 84M/1079; thin platy hematite crystals, occurrence, description, 84M/2316; *western*, silicic segregations from basaltic magma in igneous rocks, mechanism, 84M/0965; *Peloritani Mtns.*, *Monte Soro flysch*, structural geol., petr., 84M/1127; *San Carlo mine*, scheelite mineralization, 84M/2594; *Troina*, altered basic lavas in varicoloured clays, chem. anals., 84M/1723; *Lipari Island*, Fe distrib. in zeolites derived by hydrothermal synthesis from rhyolitic pumice, 84M/1628; *Pantelleria*, welded tufts, rheomorphism of, 84M/1023; *Lake Specchio di Venere*, geochem., min., 84M/0653; *Vulcano*, tamarugite incrustations in altered pyroclastic rocks, anals., opt., DTA, TG, 84M/0867
—, TRENTINO-ALTO ADIGE, *Adamello massif*, biotite from dioritic to granodioritic rocks, crystal chem., 84M/1851; *Trento*, *Ala*, brucite from thermally metamorphosed marble, hydrothermal expts., 84M/2694; *Trento*, *Val Fersina*, K-rich andesites overlying rhyodacitic ignimbrites, chem. anals. 84M/0964; *Ultimo Valley*, *Seefeld Alm*, pyroxenite lenses in garnet peridotite, possible high-*T* origin, 84M/3520
—, TUSCANY, *southern*, exploration for Sb deposits, 84M/1811; pyrite deposits, S-isotope study, 84M/1673; *south Tuscany*, *volcanic province*, geochem. characteristics, constraints on lava petrogenesis, 84M/4107; *Apuane Alps*, chloritoid, anals., probable indicator of pre-Alpine metamorphism, 84M/1833; adularia, wurtzite, colusite, sulvanite, new finds, 84M/4566; *Buca della Vena mine*, derbylite, occurrence, XRD, anals., 84M/1887; *Carrara*, *Lorano quarry*, colusite crystals in marble, new occurrence, crystal chem., 84M/0857; *Cetine mine*, alteration minerals, list, 84M/4568; *Niccioleta*, sulphates from massive pyrite deposits, O-isotope compns., 84M/2833; *Pereta mine*, minerals, list, 84M/4567
—, UMBRIA, *San Venanzo quarry*, willhenderssonite, new zeolite mineral, 84M/4291
—, VAL D'AOSTA, *Bard*, deformation, metamorphism during subduction and uplift, 84M/2260
—, VENETO, *Vicenza*, *Campotamaso*, bentonite, transformation to smectite, 84M/2473; *Venice*, *Isles of Torcello*, weddellite on limestones, origin, 84M/1520; *Selva di Trissino*, harmotome, anals., 84M/1866; *Venice Lagoon*, fine sediments, relationships between surface area and grain size, 84M/1077
IVORY COAST, *west*, orthopyroxenes, weathering under lateritic conditions, 84M/0133; *Bafo-Guéto hills*, Mn-mineralization, paragenesis, chem. alteration, 84M/1465; *Ziemougoula*, manganite formation in first stage of lateritic Mn ores, 84M/0838

Jade, jadeitic, dyed blue, description, 84M/0499
—, -albite, gemmological props., ident., discovery, 84M/1647
—, deposits, *South Australia*, *Miltalie*, 84M/2769
'Jade axes', *east* and *south Netherlands*, petr., 84M/4615
Jadeite *v.* pyroxene
—, melts *v.* melts, jadeite
Jamesonite, microprobe data, 84M/3209
Janhaugite, *Norway*, *Gjerdingen*, new mineral, data, 84M/3238
JAPAN, Neogene sedimentary basin, petroleum geochem., primary migration, 84M/0702; river bottom mud, river classification by heavy metal content, 84M/1537; anorthoclase spherulites, EM study, 84M/3177; *northern*, Neogene siliceous rocks, petr., diagenetic changes, 84M/2221; *north east*, $^{3}He/^{4}He$ ratios in CH_4-rich natural gases, possible magmatic origin, 84M/2798; acid sulphate-chloride thermal waters, origin of S species in, 84M/3015; *Japan arc*, basaltic magma, lateral variation of *RE* element pattern, 84M/2905; *Fukazawa mine*, *Tsunokakezawa no. 1 orebody*, chem., role of Zr in formation, 84M/1694; *Hokuroku dist.*, chlorites from tuffaceous exhalites assoc. with volcanogenic massive sulphides, compn., oxidation state, 84M/3163; *Izu Islands*, Hf-Nd-Sr isotopes, incompatible element abundancies in island arcs, implications, 84M/4122; *Izumi group rocks*, jarosite and sulphate minerals in Cretaceous sediments, 84M/4573; *Mt. Jōnen-dake area*, alkaline rocks, occurrence, petr., chem., 84M/3508; *Kaizuki Yama*, duration of skarn formation, quasi steady-state model for diffusional metamorphism, 84M/1112; *Kasuga*, greenschist-amphibolite transition equilibria at low-*P*, 84M/2271; *Kasuga area*, C-isotope thermometry calibration by dolomite-calcite solvus *T*, 84M/0639; *Masuda cauldron*, Palaeogene, petr., 84M/4392; *Nakajo*, montmorillonite, formation, transformation, 84M/1282; *Nohi*, basaltic andesites in Cretaceous rhyolite mass, volcanic activity, 84M/4387; *Ohmi area*, coexisting jadeite, omphacite, miscibility gap between, 84M/4220; *Rhyokaku Mtns.*, *Okumino complex*, acid igneous complex, Cretaceous igneous activity, 84M/4389; *Seikan Tunnel*, iron-sepiolite, discovery, ident., props., 84M/0124; *Sendai*, *Bomeki*, stilbite, surficial ordering of Al/Si atoms, effect on symmetry, 84M/0180; *Shimoda City*, *Kawazu mine*, kinichilite, new mineral, props., 84M/1932; *Tsumo*, ilvaite polymorphism, X-ray study, 84M/1364; *Ukyoku*, *Narabigaoka*, joseite-A, bismutite, native Au, occurrence, X-ray data, 84M/4591
—, HOKKAIDO, *central*, pyroclastic flow deposits, INAA study, 84M/2903; *Daté mine*, calaverite, new occurrence, paragenesis, 84M/1901; *Funka Bay* [*Uchiura-wan*], removal of ^{234}Th, ^{210}Po, ^{210}Pb from surface water, biological effect, 84M/2626; *Horokanai ophiolite*, geochem., 84M/2904; soda-tremolite-bearing dunite, 84M/3144; *Kamuikotan zone*, tectonic mixing of high-*P*, low-*P* metamorphic rocks, 84M/2270; *Toya caldera*, *Usu volcano*, gradual bubble growth in dacite magma, possible cause of 1977–78 activity, 84M/4412; *Toyoha mine*, Sn minerals, new occurrence, ore mineral study, 84M/3904
—, HONSHU, *Hida metamorphic belt*, obliquity of K-feldspar from schists, gneisses, granites, 84M/1860; metamorphic *T*, detn. by C isotope geothermometry, 84M/4500; *Hida terrain*, *Unazuki schists*, progressive metamorphism, 84M/1139; *Ryoke-Sanbagawa paired belt*, formation, model, 84M/1142; *Sanbagawa*, coexisting 3T, $2M_1$ muscovites in schists, 84M/3151; *Sanbagawa belt*, mafic volcanogenic schists, origin, 84M/4501; *Setouchi belt*, volcanic rocks, Nd, Sr systematics, clue to orogenic andesite origin, 84M/2902; AICHI PREF., *Hazu-Hongusan area*, *Ryoke belt*, staurolite schists, metamorphic conditions, 84M/4499; *Kira-cho*, cobaltite and gersdorffite in Mn-ore, X-ray, chem. data, 84M/4575; *Otowa-cho*, Mn-bearing amphibole, dravite, occurrence, 84M/4577; *Toyohashi City area*, datolite from metadolerite, occurrence, X-ray data, 84M/4576; AKITA PREF., *Futatsui*, clinoptilolite tuff, changes in props. by Na-hydrate soln. treatment, 84M/0397; effect of acid soln. treatment on chromatographic props., 84M/0398; AKITA PREF., *Matsuki mine*, montmorillonite X-ray basal reflections, relationship with interlayer cation distrib., 84M/1278; FUKUI PREF., *Mt. Ikoma*, olivine-plagioclase corona in metanorite, growth, steady diffusion model, 84M/0352; FUKUSHIMA PREF., *Adatara volcano*, geol., petr., 84M/3429; *Iwaki*, *Yotsukura*, Neogene Tertiary rhyolite, K/Ar age, 84M/0029; *Ryozen basalt*, tr. element contents, prelim. rept., 84M/0576; *Shinzan hydrothermal area*, conversion series of dioctrahedral mica/smectites, 84M/3761; *Towada*, volcanic glass in recent ash, alteration in different soil environments, 84M/0110; GIFU PREF., *Ena City*, *Kerokubo*, stokesite, first Japanese occurrence, data, 84M/4586; *Kinka mine*, tripuhyite, first Japanese occurrence, data, 84M/4585; *Kiyomi mura*, *Naradani*, oolitic dypingite, X-ray, DTA, TGA data, 84M/4584; *Shokawa-mura*, *Makido complex*, geol., petr., 84M/4388; GUMMA PREF., *Mogurazawa mine*, nagashimalite, cryst. struct., 84M/0161; nagashimalite, new mineral, 84M/0888; suzukiite, new mineral, 84M/4288; *Seta dist.*, alabandite in bedded Mn ore deposits, 84M/3893; *Shibukawa area*, coexisting jadeite, omphacite, miscibility gap between, 84M/4220; HIROSHIMA PREF., *Misasa dist.*, Cr-spinel in alkali basalts, calc-alkali andesites, crystallization trend, 84M/0829; *Nukui*, clay minerals in clay veins in granitic rocks, formation process, 84M/2487; HYŌGO PREF., *Haga town*, *Hikihara*, disordered wairakite, compn., props., 84M/4244; IWATE PREF., *Hijikuzu mine*, orthoericssonite, cryst. struct., 84M/0158; *Iwatecho*, *Takayama*, bipyramidal calcite crystals, crystallography, 84M/4587; *Kamaishi mine*, grandite garnets, birefringence, compn., 84M/0765; *Kamaishi mine*, *Shinyama ore deposit*, grunerite, occurrence, 84M/1843; tochilinite, Cu-tochilinite, occurrence, opt., microprobe anals., 84M/1890; *Kawasage* and *Tamagawa Hot Springs*, Pb-bearing baryte (hokutolite), lattice constants, Sr, Ca contents, relationship, 84M/4267; *Kitakami Mtns.*, K, Rb, Sr, Th, U in Cretaceous plutons, 84M/0997; *Miyamori-Ōhazama dist.*, *Tōno pluton*, low-grade metapelites in contact aureole, 84M/3507; *Tōshichi Spa*, buddingtonite replacing plagioclase, props., 84M/4241; KYOTO PREF., *Horikoshi*, new crystal planes in laumontite, 84M/4246; *Kameoka City*, *Mt. Gyoja*, wolframite, estimated Fe/Mn ratios, X-ray data, 84M/4594; scorodite, pharmacosiderite, beudantite, occurrence, morphology, X-ray data, 84M/4596; cassiterite, occurrence, morphology, 84M/4597; *Kameoka City*, *Tokonagekannon*, anglesite, morphology, X-ray data, 84M/4595; *Maizura City*, *Ōura complex*, hornblende-rich gabbo-diorite sequence, generation of late differentiates midway in layered sequence, 84M/3381; *Oro*, *Isanago mine*, minerals, list, morphology, X-ray data, 84M/4592; *Otani mine*, *Hankei adit*, stolzite, raspite, occurrence, X-ray data, 84M/4593; *Tamba belt Mn mines*, rhodonites, pyroxmangites, XRD data, 84M/4223; MIE PREF., *Mie mine*, diopside, sepiolite, occurrence, X-ray data, 84M/4598; MIYAGI PREF., *Kasagai-jima*, gabbroic complex, geol., 84M/3380; NARA PREF., *Godaimatsu mine*, ferroactinolite, texture, props., anal., 84M/4225; NIIGATA PREF., *Itoigawa*, mixed-layer kaolin-montmorillonite in acid clay deposit weathering zone, 84M/1343; *Nakaje deposit*, montmorillonite, exchange cations, structural formulae, 84M/1281; *Odokoro River*, jadeite, paragenesis, X-ray data, 84M/4601; *Sado Islands*, Neogene volcanic rocks, petr., chem. anals., 84M/4390; SHIGA PREF., *Ishibe mine*, bustamite, manganoan hedenburgite, grunerite, occurrence, anals., props., 84M/4221; *Takashima dist.*, pegmatite minerals, descriptions, 84M/4602; SHIMANE PREF., *Haza cauldron*, geol., structure, 84M/4391; SHIZUOKA PREF., *Seigoshi mine*, beidellite, occurrence, data, 84M/1339; TOCHIGI PREF., *Yaita city*, kaolin mineral, cryst. struct., X-ray powder pattern-fitting study, 84M/0175; TOKYO PREF., *Shiromaru mine*, strontianite, first Japanese occurrence, X-ray data, 84M/4603; *Tokyo Bay*, polycyclic aromatic hydrocarbon levels in sediments, trends, factors governing, 84M/4178; TOTTORI PREF., *Hiroshima* and *San'in granitic complexes*, mica clay minerals, modes of occurrence, min., 84M/1340; *San'in dist.*, and *Daisen volcano*, $^{87}Sr/^{86}Sr$ ratios in volcanic rocks and andesite, 84M/2906; TOYAMA PREF., *Wada* and *Oguchi River area* metamorphic, plutonic rocks, 84M/3002; WAKAYAMA PREF., *Kii Peninsula*, depth of basalt-eclogite transition in subducting oceanic crust, seismological constraint, 84M/4556; *Kii Penin.*, *Omine*, acid rocks, geol., major element chem., 84M/0998; mineralogy, 84M/0999; sulphide, oxide minerals, paragenesis, 84M/1891; YAMAGATA PREF., *Atsumi-cho*, *Irakawa*, thaumasite, occurrence, opt., 84M/4272; *Matsukawa geothermal area*, S-compounds, abundance, S-isotope compn., 84M/2830; YAMAGUCHI PREF., *Kitabira*

JAPAN, HONSHU (*contd.*)
mine, pharmacosiderite, X-ray data, 84M/4604; *Kiwada*, *Fujigatani* and *Kuga mines*, wolframite from contact-metasomatic scheelite deposits, 84M/3905
—, KYUSHU, displacement distrib. along minor fault traces, 84M/3317; *Toroku mine*, legrandite, props., chem., compn., 84M/4258; *Sannotake*, *Yokozuru mine*, melonite, volynskite, hessite, petzite, occurrence, opt. props., paragenesis, 84M/1902; FUKUOKA PREF., mineral list update, 84M/4581; *Bishamondaké* coloured zeolites, occurrence, X-ray data, 84M/4582; *Nagatare*, hafnian zircon, occurrence, anal., 84M/4214; *Ryuge-ji*, native As, X-ray data, 84M/4583; *Tsuyazaki*, zeolites, chem. compns., genesis, 84M/4243; KAGOSHIMA PREF., *Ariake Bay*, smectites in paddy soils from marine alluvium, swelling, min., 84M/0102; *Futago Island*, connellite, paratacamite, occurrence, X-ray, genetic studies, 84M/4588; *Kinzan*, chlorite-montmorillonite regularly interstratified mineral in altered andesite, 84M/0125; *Kuroshima volcano*, *Katadomari*, plagioclase, pyroxenes in andesite flow, effects of crystal growth rate on compn., 84M/1000; *Sakurajima volcano*, volcanic ashes, min., chem. compn., mechanism of formation, 84M/3430; KUMAMOTO PREF., *Mashiki town*, dypingite, hydrotalcite, occurrence, X-ray data, 84M/4589; brugnatellite, pyroaurite, coalingite mixture, occurrence, X-ray data, 84M/4590; *Taneyama mine*, taneyamalite, new Mn-silicate, props., 84M/1847; MIYAZAKI PREF., *Osuzuyama*, acid rocks, zoned magma chamber, 84M/2036; *Shishigawa Sb mine*, chapmanite, valentinite, occurrence, X-ray data, 84M/4599; NAGASAKI PREF., *Iki Island*, aragonite, occurrence, X-ray data, 84M/4600; *Saipicho*, *Torika*, regularly interstratified chlorite/vermiculite in serpentinite, 84M/1855; *Tsushima Island*, Miocene granitoids, anomalous Cl contents, 84M/0577
—, RYUKYU ISLANDS, corals from marine terraces, electron spin resonance ages, comparison with ^{14}C, Th/U ages, 84M/1214
—, SHIKOKU, *central*, zonal structure of albite porphyroblast from Sanbagawa schists, 84M/0802; *Takanawa Peninsula*, pegmatite minerals, 84M/4574; *Bessi area*, pelitic schists in oligoclase-biotite zone, petr., phase equilibria in highest grade zone of high-*P* metamorphic belt, 84M/1143; oligoclase-biotite zone of Sanbagawa belt, 84M/4503; *Besshi* and *Hitachi Cu deposits*, sulphide minerals in metamorphosed ores, studies, 84M/3906, 84M/3907; *Sazare mining dist.*, regional metamorphism of sulphide ores and surrounding rocks, opaque min. assemblages and fluid compns., 84M/1140; *Fujiwara mafic/ultramafic complex*, zoned chromite, paragenesis, 84M/0833; *Nakatsu-Nanokawa dist.*, Sanbagawa metamorphism, 84M/4502; EHIME PREF., *Irazuyama*, szaibelyite, clinohumite, occurrence, X-ray data, 84M/4579; *Makinokawa*, scolecite, microprobe anal., X-ray data, 84M/4579; *Mt. Ooto*, thalenite, occurrence, X-ray data, 84M/4578; *Sanbagawa belt*, ruby, props., anal., 84M/4250; *Sanbagawa belt*, *Iratsu mass*, margarite-bearing metagabbro, 84M/3166; *Sanbagawa belt* and *Kii Peninsula*, dunites, serpentinites, metamorphism, 84M/1141; *Seto Inland Sea*, *Shisaka-jima*, Ti-fassaite, occurrence, geol., chem., anals., 84M/0784; *Tobe dist.*, amygdaloidal graphite in pottery stone, 84M/0524; *Tobe*, mica clay minerals, X-ray basal reflections, characteristic features of NH_4-bearing micas, 84M/1279; tobelite, new mica mineral, 84M/4289; KOCHI PREF., weathering of chlorite-sericite schist, 84M/1344; *Kochi City*, *Kurosegawa tectonic zone*, muscovite from greenstone, K/Ar age, 84M/0028; TOKUSHINA PREF., *Kito-Munemori landslide area*, weathering of crystalline schists, 84M/2491
Jarlite, *Greenland*, *Ivigtut*, crystal structure, 84M/1406; *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822
Jarosewichite, *USA*, *New Jersey*, description, 84M/4606
Jarosite, Rb-analogue, formation by microbiological oxidation of ferrous Fe at room *T*, 84M/0438; *Belgium*, *Daverdisse*, in quartzite, quartz veins, 84M/1483; *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568; *Japan*, in Cretaceous sedimentary rocks, 84M/4573; *South Australia*, *Arkaroola*, unusual pseudomorphs after pyrite containing sulphur crystals, kinetics, 84M/1903; *USA*, *west central Massachusetts*, formation by weathering of sulphidic schist, mechanism, 84M/1521
Jasper *v.* quartz
Jeppeite, *Western Australia*, *Walgidee Hills*, new mineral, data, 84M/3239
Jerrygibbsite, *USA*, *New Jersey*, description, 84M/4606
Jervisite *v.* pyroxene
Johannite, *Czechoslovakia*, *Joachismsthal*, crystal structure, 84M/3844
Johannsenite *v.* pyroxene
Johillerite, *Namibia*, *Tsumeb*, new mineral, data, 84M/3240
Johnhauckite, *USA*, *New Jersey*, description, 84M/4606
Joints, in carbonate rocks, explanation using photoelastic models, 84M/3468
JORDAN, Fe-free volkonskoite, occurrence, props., 84M/2468; *west central*, hashemite, new mineral, data, 84M/3237; *Wadi Araba area*, Precambrian basement, age detmns., 84M/0023
Joseite, *Japan*, *Ukyoku*, *Narabigaoka*, joseite-A, occurrence, X-ray data, 84M/4591
JUGOSLAVIA, *central Croatia* and *west Slavonia*, accessory apatite in Middle Miocene tuffs, 84M/4279; *Serbia*, *Crni Vrh area*, talc schists, 84M/4480
Julgoldite, *USA*, *Michigan*, *Keweenaw Co.*, *Clark mine*, occurrence, description, 84M/2317
Jupiter *v.* planets
Jurassic rocks, *Europe*, *central Caspian region*, dispersed organic matter in, catagenic transformation, 84M/4176; *Scotland*, stratigraphy, petrography, tectonics, volcanism, 84M/0918; *north east* 'Boulder Beds', fault controlled submarine slope, 84M/3471; *Carpathians*, *West Tatra Mtns.*, *Krížna nappe*, sediments, lithological, geochem. characterization, 84M/0599; *south east China*, magmatic, relationship with tectonism, plate tectonics, 84M/2031; *USA*, *Alaska-Aleutian Range batholith*, plutonic, chem. variation, polarity, 84M/2037; *Chile*, *Tocopilla area*, *Coastal Range*, gabbro from volcanic complex, geochem., 84M/2957; *South Shetland Islands*, *King George Island*, volcanics, K/Ar ages, 84M/2355; *Antarctica*, *Alexander Island*, sedimentary dykes, pipes, structures in, 84M/1101; *Graham Land*, *Nordenskjöld formation*, radiolarian mudstone, tuff sequence, 84M/1100; *North Sea*, interlayered clay stacks in shales, 84M/2480; deltaic, sedimentological, palaeontological anals., 84M/4446; *East Shetland basin* and *Viking graben*, generation, migration of hydrocarbons from, 84M/0703

Kalimantan (*Borneo*) *v. Indonesia*
Kalsilite, existence of high-low inversion point, 84M/3817; synthesis from natural clinoptilolite, 84M/4030
Kamitugaïte, *Zaire*, *Kivu*, *Kobokobo*, new mineral, 84M/4285
Kämmererite *v.* chlorite, chrome-
Kaolinite, bacterial breakdown, 84M/0361; formation from smectite in naturally acid soil systems, struct., thermodynamics, 84M/0101; quantitative detn., effect of crystallinity, 84M/0104; growth spirals on etched crystals, 84M/0107; dealumination by sulphuric acid, changes in surface props., 84M/0109; stability in weathering conditions, 84M/0114; blocky sedimentary cement, SEM study, 84M/1057; alteration to berthierine in ironstones, 84M/1298; electrokinetic potential and specific surface, relationship, 84M/1302; electrostatic interlayer bonding energy and lattice energy, 84M/1303; Co-, surface chem. of Co in calcined, 84M/1315; effect of crystal field on vibration spectrum, 84M/1375; mixed layer with montmorillonite, synthesis, 84M/1625; effect of V_2O_5 on thermal reactions, 84M/2742; reaction series to mullite, structural characterization of spinel phase, 84M/2742; two Si environments, solid state ^{29}Si n.m.r. study, 84M/2522; possible cause of 7Å X-ray reflection in Mn-nodules, 84M/3207; adsorption of quadrivalent Ce, 84M/3707; hydrothermal synthesis, X-ray diffractograms and SEM micrograph evidence, 84M/3721; spherical, first synthesis, min. props., 84M/3737; 10-Å hydrated, synthesis, 84M/3738; room-*T* luminescence induced by organic amines, 84M/3740; hydrolysis kinetics of organic chemicals on surface, relation to moisture content, 84M/3741; Na-saturated, adsorption of molybdate ions by, 84M 3934; *England*, *Cornwall*, apparent charge heterogeneity, relation to 2:1 phyllosilicate content, 84M/1308; *St. Austell*, H atom positions by neutron profile refinement, 84M/3732; *France*, *Canonnettes*, Fe-bearing in bauxitic profile, min. anal., 84M 3758; *Paris Basin*, interstratified with smectite, correlations of layer proportions, chem. compns., 84M/1262; *Korea*, *Sung-ju area*, changes in pore structure by sulphuric acid treatment, 84M/0108; *Indonesia*, containing free Al ions, surface

Kaolinite (*contd.*)
props., 84M/2464; *Australia*, structural Fe in, Mössbauer effects, 84M/3729; surface Fe, Mössbauer effects, 84M/3730; *Western Australia, Yilgarn block*, cement with opal for saprolites, grits, silcretes, 84M/1095; *USA, Georgia*, structure defects in dehydrated, 84M/3736; *Iowa, Keokuk*, structure refinement, 84M/3734; *Vermont, Post Pond series*, intergrown with wonesite, biotite, talc, chlorite, microstruct., 84M/0172; *Virginia, Herbb no. 2 pegmatite*, occurrence, 84M/1636; *Mexico, Querétaro*, possible inclusions in opal, 84M/0489
—, deposits, *USSR, Urals*, on weathered emerald-bearing mantle, implications, 84M/1342; *France, Charentes*, geol., min., 84M/2476
—, halloysite, interactions with amides, min. factors affecting complex formation, 84M/3719; *West Carpathians, Horná Prievraná*, tubular particles in kaolinite deposit, ident., 84M/0120; *Canada, Quebec, Mont Jaques Cartier*, from strongly weathered soil, 84M/0145
—, minerals, *Japan, Tochigi Pref., Yaita city*, cryst. struct., X-ray powder pattern-fitting study, 84M/0175
Kaolinization, *England, Cornwall, Goonbarrow china clay pit*, with sheeted Sn-W mineralization, greisenization, 84M/1682
Keivyite, *USSR, Kola Peninsula*, new mineral, data, 84M/3241
KENYA, soils in peralkaline volcanic ash, props., weathering, classification, 84M/3766; *coastal region*, late Pleistocene limestones, depositional history, 84M/3478; *Lake Turkana*, hydrogeochem., mass balance, min. reactions, 84M/0655; *Nyambeni Range*, basanite to peralkaline phonolite suite, lithology, origin, 84M/2056; basanite to peralkaline phonolite suite, quantitative crystal fractionation model, 84M/3425; *North Turkana basin*, volcanism, age, succession, structural evolution, 84M/1027; *Tinderet foothills*, carbonatite tuffs and lava clasts study of calcified nitrocarbonates, 84M/3370
Kenyaite, synthesis, props., 84M/1631
Keratophyre, *Yugoslavia, Slavonia*, petr., geochem., magmatic association, 84M/0972
KERGUELEN ISLANDS, rock $^{176}Hf/^{177}Hf$ ratios, comparisons, 84M/0583; possible hotspot source for Rajmahal Traps, Ninetyeast Ridge, 84M/1730; *Rallier du Baty Peninsula*, ice capped geothermal system, detection by IR thermography, 84M/4411
Kermesite, *Italy, Tuscany, Pereta mine*, rare occurrence, 84M/4567
Kerolite, series to pimelite, IR studies of Ni-bearing, 84M/1305; *Red Sea, Atlantis II deep*, assoc. with anhydrite in sediments, first marine occurrence, origin, 84M/0797
Kesterite, *England, Cornwall, Cligga Head*, occurrence, 84M/4260; *St. Michael's Mount*, equality with stannite, 84M/4260
Kieserite, *Spain, Alcázar de San Juan*, in saline sediments, 84M/2614
Kimberlites, formation from alkali basalts, isotope and tr. element evidence from melilitites, 84M/0556; ilmenite from, geochem. features, 84M/0826; petr., geol. occurrences, geographic distrib., economic importance, 84M/0949; volcanic nature of diamond-bearing rocks in, 84M/0950; kimberlite volcanism epochs, relation with Earth's rifting periods, 84M/0951; autoliths, genesis from immiscible liquids, corollaries, 84M/0952; relation to mantle peridotites, processes, 84M/1703; genesis with lithospheric doubling model, brief discussion, 84M/3334; ultramafic ilmenite-phlogopite inclusions in, geochem., 84M/3959; micas from, comparison with Ti-phlogopite from minette, 84M/4232; extraction of deformed peridotite by, case history, 84M/4296; prospecting for, use of ilmenite, 84M/4535; *southern west Greenland*, age, 84M/1202; *USSR, north east Siberian platform*, magmatism and diamond occurrences, 84M/0981; *central Timan*, brief min., petr. characteristics, 84M/2900; *Yakutia*, compn.-structure-props. dependences, min. significance, 84M/1873; U/Pb zircon age, new data, 84M/2348; min. inclusions in garnets from, 84M/3365; *Udachnaya pipe*, min., petr., 84M/3364; *China*, prelim. microprobe study of ilmenites from, 84M/4292; *Western Australia, West Kimberley region, Fitzroy area*, Nd, Sr-isotopes in, enriched mantle source, 84M/2907; *southern Africa*, Cretaceous, sources, Pb, Sr, Nd-isotope evidence, 84M/2890; *South Africa, Benfontein*, primary baddeleyite in, 84M/3203; *Benfontein sill* and *Premier* and *Wesselton mines*, alleged relationship with carbonatites, evidence from ilmenite, spinel, 84M/3371; *Jagersfontein* and *Kampfersdam mines*, graphic rutile-olivine intergrowths in, 84M/4381; *Kimberley, De Beers mine*, East Peripheral kimberlite, K/Ar age, 84M/2344; *North America* and *Africa*, genesis, geodynamic setting, 84M/4379; *Canada, Quebec, Ile Bizard intrusion*, kimberlite or lamprophyre, discussion, 84M/2045; *USA, north central Montana*, prospecting for, key from garnets in diatremes, 84M/4184; *Pennsylvania, Fayette Co.*, megacrysts, evidence for magma mixing in low velocity zone 84M/4397
—, pipes, *USSR, Udachnaya West*, abiogenic hydrocarbon synthesis, C-isotope distrib. evidence, 84M/0510
Kingsmountite, *Germany, Bavaria, Hagendorf*, possible ferrian variety, 84M/1917
Kinichilite, *Japan, Shimoda City, Kawazu mine*, new mineral, props., 84M/1932
Kinoite, *USA, Michigan, Houghton Co., Laurium mine*, occurrence, description, 84M/2317
Kirschsteinite, phase relations in join with fayalite, 84M/2720
Kittatinnyite, *USA, New Jersey, Franklin*, new mineral, data, 84M/3242
Klebelsbergite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Pereta mine*, occurrence, 84M/4567
Klippen, *Himalayas, Simla area, Jutogh klippe*, geol., structural evolution, 84M/4329
Kolicite, *USA, New Jersey*, description, 84M/4606
Komandor Islands v. USSR
Komatiites, and structure of Archaean mantle, discussion on previous paper, 84M/3336; *Norway, Finnmark, Karasjok greenstone belt*, prelim. study, 84M/4485; *USSR, Kola Peninsula, Polmos-Poros Belt*, petr., 84M/0569; *South Africa, Transvaal, Barberton Mtn.*, oldest reliable terrestrial $^{40}Ar/^{39}Ar$ ages, 84M/3653; *Canada, Quebec, Lac Guyer*, petrogenesis, nature of komatiite-komatiitic basalt gap, 84M/2044; *Brazil, Minas Gerais, Piumhi, RE* element geochem., 84M/2959
—, magma *v.* magma, komatiite
KOREA, intergradient vermiculite-kaolin mineral in ultisol, 84M/1324; *Chungchung prov., Weolag W-Mo deposit*, metamorphic, ore-forming events, C, H, O, S isotope and fluid inclusion studies, 84M/4088; *Dae Hwa* (*Yaewha*) W-Mo mine, geochem., 84M/1497; *Gyeongsang basin* granitic rocks, general geol., K/Ar ages, 84M/0027; *Sung-ju area*, kaolin, changes in pore structure by sulphuric acid treatment, 84M/0108; *v.* also *North Korea*
Kornerupine, *India, Paderu*, occurrence, 84M/0770
Kostylevite, *USSR, Khibina massif, Vuonnemiok River*, new mineral, props., 84M/1933
Kotoite, synthetic, crystal structure, 84M/2549
Köttigite, *Germany, Clara mine*, new find, 84M/4559
Koutekite, *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Krasslite, *USA, New Jersey, Franklin* and *Sterling Hill*, description, 84M/4606
Krennerite, *Japan, Hokkaido, Daté mine*, unconfirmed occurrence after new examination, 84M/1901
Krupkaite, *Austria, Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902; *Czechoslovakia, Dobsina*, second occurrence, X-ray data, 84M/1898
Krypton, *Canada, Fairmont Hot Spring*, in fumarolic gases, evidence for geothermal activity, 84M/0663
Kryzhanovskite, *Germany, Hagendorf*, intermediate in transformation of phosphoferrite to whitmoreite, 84M/0877
Küstelite, *eastern USSR*, inclusions in native Ag, use as ore index feature, 84M/0231
Kutinaite, *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Kutnahorite, *Italy*, occurrences, description, 84M/2313; *Northern Calcareous Alps*, in stratabound Mn deposit, 84M/2589
Kvanefjeldite, *Greenland, Ilimaussaq intrusion*, new mineral, crystal structure, 84M/2515
Kyanite, bacterial breakdown, 84M/0361; colour change in, cause, 84M/1646; *Czechoslovakia, Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253; *Himalayas*, U concentrations, fission track dating, 84M/0025; *Zaïre*, with aluminian serpentine-florencite in hydrothermal assemblages, petrogenesis, 84M/1856; *South Africa, Otavi mine*, single crystals, thermal decompn., 84M/2724; *USA, North Carolina, Craggy Mtn. area*, resources in schists/gneisses, 84M/0299

Labradorite *v.* feldspar
Laccoliths, *Canada, North West Territories, Great Slave Lake, east arm*, cogenetic monzonitic, comparative petrochem., genesis of U-bearing veins, 84M/2931

Laihunite, fine textures, true compn., 84M/4211
Lakes, chem. of Ba, active biological participation in, 84M/2625; seasonally anoxic, Mössbauer and chem. studies of particulate Fe material from, 84M/2965; *central Europe*, ^{18}O variations in shells of gastropods/pelecypods, 84M/4163; *Switzerland/Germany*, *Lake Constance*, sedimentation rate variations, anthropogenic metal fluxes into, 84M/3944; *Switzerland/France*, *Lake Geneva*, sum of DDT, PCB's HCB in sediments, 84M/3945; *Italy*, *Pantelleria Island*, *Lake Specchio di Venere*, geochem., min., 84M/0653; *China*, *Tibet*, saline, geol., 84M/1741; *Australia*, *Queensland*, *Fraser Island*, cations, silica in waters, 84M/3016; *East Africa*, *Lakes Tanganyika* and *Malawi*, rift lakes, new seismic data, implications, 84M/3615; *Kenya*, *Lake Turkana*, hydrogeochem., mass balance, min. reactions, 84M/0655; *Canada*, *Lake Erie*, Mn-rich microparticles in eastern basin, 84M/0661; *south Ontario*, marl lake waters, isotopic, geochem. compn., implications for marl radiocarbon dating, 84M/0660; *Ontario*, *Sudbury*, near smelters, As enrichment in, 84M/2619; *north USA* and *west Canada*, playa, sedimentology, 84M/4467
Lake sediments *v.* sediments, lacustrine
Lamproite, *Western Australia*, *West Kimberley area*, magnesian-rich leucite-lamproite, high-*P* exptl. study, petrographic implications, 84M/2753; *West Kimberley region*, *Fitzroy area*, Nd, Sr-isotopes in, enriched mantle source, 84M/2907
Lamprophyllite, crystal structure, 84M/2512
Lamprophyre, micas from, comparison with Ti-phlogopite from minette, 84M/4232; *southern west Greenland*, age, 84M/1202; *Ubekendt Ejland*, products of renewed partial melting or extreme differentiation, 84M/2018; *Canada*, *Quebec*, *Ile Bizard intrusion*, kimberlite or lamprophyre, discussion, 84M/2045
—, dykes *v.* dykes, lamprophyre
Lanarkite, *Scotland*, *Leadhills-Wanlockhead*, discovery, mining hist., 84M/1172
Landsat images, *Turkey*, lineaments, relation to mineralization, earthquakes, min. waters, hot springs, 84M/0237
—, data, *USA*, *Montana*, *Butte* and *Dillon quadrangles*, use of multispectral scanner data for limonitic exposure definition in vegetated areas, 84M/0246
Langbeinite, *China*, *Hubei Prov.*, *Q basin*, in Eogene saline deposit, 84M/4270
Langite, *Germany*, *Ramsbeck*, occurrence, 84M/4560
Lanthanides, *USSR*, *Yakutia*, *Seligdar deposit*, in apatite ores, monazite 84M/0531
Lanthanum, distrib. in ilmenite from various igneous rocks, 84M/1667; *Norway*, *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Italy*, *Sardinia*, geochem. in fluorite deposits, 84M/0532; *Pacific* and *Indian Oceans*, accumulation on sea-floor, absolute rates, 84M/1762; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, LaF_3, crystal structure, 84M/1407
Lapilli, *Scotland*, *Ballantrae complex*, accretionary in ophiolite complex, 84M/4406; *Western Australia*, *Pilbara dist.*, folding, clastic dyke injection in accretionary beds, use in recognition of soft-sedimentary deformation, 84M/0904
Lapis lazuli, Gilson imitation, props., 84M/4053; cobalt glass imitation, 84M/4058
Laser spectrum, new method for quantitative anal. of heavy minerals, 84M/3688
Laterite, *Malaysia*, *Pulau Langkwai*, soil, genesis, geochem. characteristics, 84M/1336; *Western Australia*, *Yilgarn Block*, mobility of Au, Ag in weathered profiles, 84M/4142; *USA*, *California* and *Oregon*, Ni-bearing, characterization by electron-optical, X-ray methods, 84M/2561; *Venezuela*, VL-1 standard material, anal., 84M/0711; *south west Pacific area*, nickeliferous, occurrence, min., 84M/3894
Lateritization, *China*, *Hainan Island*, of Quaternary basalts, 84M/0123
Latiumite, intergrowths with tuscanite, EM study, 84M/3186
Laumontite *v.* zeolites
Launayite, microprobe data, 84M/3209
Laurasia, supposed Permo-Trias megashear with Gondwana, 84M/3616
Laurite, *Cyprus*, *Kokkinorotsos mine*, osmian-iridian, in chromitite grains, 84M/2074; *Sierra Leone* and *Borneo*, series to erlichmanite, chem., reflectance, cell, 84M/0858; *Canada*, *Manitoba*, *Bird River sill*, inclusions in chromite, 84M/1872
Lava, from Tethyan ophiolites, genesis, eruptive setting, geochem. evidence, 84M/2092; partitioning of Fe, Mg between melilite, olivine, clinopyroxene in, 84M/4024; *England*, *Derbyshire*, *Matlock area*, Carboniferous Lower Matlock lava, diachronous base, 84M/1068; *Scotland*, *Isle of Skye*, Tertiary, isotope geochem., contamination mechanics, 84M/1708; *Norway*, *Solund*, Devonian, field relationships, geochem., 84M/4354; *USSR*, *Lesser Caucasus*, *Osinovye Somkhetsk Ridge*, crystal differentiation in spherulitic, 84M/2022; *France*, *Massif Central*, $^{87}Sr/^{86}Sr$ ratios, petrogenetic/geochem. problems, 84M/1719; *Italy*, *Latium*, *Mt. Cimino*, thermally metamorphosed inclusions in, petrography, chem., 84M/2234; *Sicily*, *Troina*, altered basic in varicoloured clays, chem. anals., 84M/1723; *south Tuscany volcanic province*, petrogenesis, constraints on, 84M/4107; *Greece*, *Lesbos*, shoshonitic, zoned pyroxenes from, inferences for shoshonite petrogenesis, 84M/4219; *Santorini volcano*, high alumina, tr. element geochem., 84M/1724; *Australia*, *NSW*, *Sydney Basin*, Late Permian shoshonitic, *RE* element geochem., 84M/4113; *Queensland*, *Bunya Mtns.*, and *Carnarvon Range*, petrogenetic relations with related basalts, 84M/3383; *New Caledonia*, *Népoui*, clinoenstatite-bearing, 84M/3387; *New Hebrides*, *Erromango Island*, min., evidence of early stage fractionation in island arc basalts, 84M/0582; *Zaïre*, *Bukavu* and *Virunga*, petrochemical comparisons, 84M/2058; *Nyamulagira volcano* from eruption of Jan-Feb 1980, nature of, 84M/2057; *South Africa*, *Karoo*, tr. element enrichment patterns, 84M/1706; *USA*, *California*, *Medicine Lake Highland*, calc-alkaline series, effects of melt density on magma mixing, 84M/3397; *New Mexico*, *Raton-Clayton volcanic field*, mafic felds-pathoidal, petrogenesis, 84M/2949; *Antarctica*, *King George Island*, *Marion Cove area*, Tertiary age for supposed Jurassic, 84M/1005; *Marie Byrd Land*, continental mafic, Nd-Sr isotopic studies, source for continental alkali basalts, 84M/1732; *Antarctic Peninsula*, *southern Bransfield Strait*, overlying metasediments, geol., 84M/4333; *Ascension Island*, and assoc. plutonic inclusions, petr., 84M/2060; *Indian Ocean*, *southeast Indian Ridge*, *Bouvet triple junction to 11° East*, erupted basaltic, geochem., min., petrogenesis, 84M/0574
—, aa, *Costa Rica*, *Arenal volcano*, eruption from vent, 84M/4422
—, basaltic, *England*, *Cornwall*, *Lizard complex*, Hercynian, comparison with basic lavas, 84M/2872; *USSR*, *Kamchatka*, *Avacha volcano*, exotic (avachite) from, 84M/4377; *Denmark*, *Faeroe Islands*, genesis, isotope and trace element constraints, 84M/0554
—, basic, compn. differences between oceanic, continental, 84M/1701
—, boninite, clinoenstatite from, EM study, comparison with meteoritic, 84M/0741; *Papua New Guinea*, *Cape Vogel*, primary magmas, evidence, 84M/2034; *Bonin Islands*, *Papua New Guinea* and *New Caledonia*, petrogenesis, chem. and Nd-Sr isotopic constraints, 84M/1731
—, flows, *India*, *Bihar*, *Rajmahal Hills*, *T*, oxygen fugacity, 84M/0993; *Canada*, *Quebec*, *Abitibi greenstone belt*, Archaean ultramafic, primary fractionation, secondary alteration in, 84M/0585; *Brazil*, *Goias*, *Crixas greenstone belt*, ultramafic, 84M/2062
—, lakes, *USA*, *Hawaii*, *Kilauea*, *Halemaumau*, oscillations of, magma reservoir beneath, 84M/1040
—, pillow, morphology, isolated sacks or connected tubes? 84M/1022; and Leidenfrost effect, 84M/3413; *Canada*, *Newfoundland*, *St. Anthony complex*, deformed, overlain by metamorphic rocks, 84M/3558; *Quebec*, *Cape Smith fold belt*, pillow shelves, detn. of bedding direction, structural facing direction in deformed pillow lavas, 84M/2043; *Argentina*, *Iglesia Dept.*, *Rodeo zone*, Caradocian, petr., 84M/1017; *San Juan prov.*, *Yerba Loca formation*, petr., 84M/2051; *Pacific Ocean*, *Mariana trench*, clinoenstatite-bearing (marianites) assoc. with ophiolite assemblage, 84M/2117
Lavendulan, *Germany*, *Clara mine*, new find, 84M/4559
Lawsonbauerite, *USA*, *New Jersey*, description, 84M/4606
Lawsonite, *France*, *Alps*, hydrocarbon inclusions in, 84M/4488; *Czechoslovakia*, *Pieniny Klippen belt*, in rock pebbles in Cretaceous conglomerate, 84M/0772
Layered complexes, *South Africa*, *Bushveld complex*, crystallization mechanisms, implications from vanadiferous magnetite geochem., 84M/1876
Lead, adsorption in soil, effect of pH, 84M/0314; singularity of primordial in meteorites, 84M/0745; future in USA and World economy, (book), 84M/1256; uranogenic and thorogenic, evolution, dynamic model of continuous isotopic evolution, 84M 1660; detn. in EDTA soil extracts by AAS,

Lead (*contd.*)
84M/2432; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; transportation, purification in streams, mechanism, 84M/3014; native, physiochem. formation conditions in igneous magmas, 84M/4093; *Britain*, normal soil content, graphical estimation, 84M/0315; *England*, in urban dusts, soils, nationwide survey, 84M/1517; *Avon, Avonmouth*, soil, plant concentrations near smelter, 84M/1518; *Scotland*, total concentrations in soils, 84M/3938; extractable concentrations in soils, 84M/3939; *Belgium*, content in Fe-sulphides, 84M/1897; *Belgium, Heure*, geochem. dispersion around gossan in carbonate environment, 84M/1685; *River Meuse*, adsorption on hydrous oxides, application of model, 84M/2632; *Italy, Sardinia, Sant'Antioco Isthmus*, content in Plio-Pleistocene sediments, 84M/1747; *Romania, Baia Mare dist.*, frequency dist. in polymetallic deposits, 84M/0541; *Japan*, content in river bottom mud, 84M/1537; *Antarctica*, occurrence in a recent snow, two centuries old firn, prehistoric ice, 84M/2623; *Atlantic, Caribbean, Pacific Oceans*, distrib., 84M/0646; *Pacific Ocean, central 15°N,20°S*, content, vertical concentration profiles, 84M/3026
—, compounds, lead (II) chloride complexes, formation to 300°C, spectrophotometric study, 84M/4001; $PbCO_3$, high-*P* study, X-ray spectrum, electrical behaviour *in situ*, 84M/0437; $(PbCO_3)_2 \cdot Pb(OH)_2$, decompn. at high-*P*, 84M/0436; chalcogenides, charge distrib., atomic thermal vibration, 84M/0195; Pb-oxide, decompn. at high-*P*, 84M/0436; PbO_2, thermal expansion data, 84M/4537; PbS, electronic structure, 84M/1391; $PbSO_4$, high-*P* study, X-ray spectrum, electrical behaviour *in situ*, 84M/0437; $Pb_2Sb_2S_5$, structure, 84M/1394
—, deposits, Mississippi Valley type, thermal constraints on formation, implications for episodic basin dewatering, deposit genesis, 84M/1432; *Scotland, Tayside, Corrie Buie*, sulphide min., 84M/1483; *Leadhills, Strontian* and *Tyndrum*, deposits, 84M/0921; *Ireland, Ballinalack*, lithology, petr., min., 84M/1443; *Co. Kildare, Harberton Bridge*, breccia-hosted in Carboniferous carbonates, 84M/1446; *Norway, Gjøvik, Osen* and *Galåa*, S-isotope compn., 84M/1668; *Czechoslovakia, Hodruša-Deep*, Pb-Zn-Cu ore, processing, application of flotation, 84M/0280; *Vel'ké Pole, Ján deposit*, new economic geol. interpretation, 84M/0281; *China*, types, main characteristics, 84M/1425; *Australia, Queensland, Gilberton area*, 84M/2579; *Morocco, Oued Mekta*, Mississippi Valley type, geol., 84M/1490
—, ions, Pb^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797
—, isotopes, uranogenic/thorogenic Pb, evolution, differences in variations of $^{206}Pb/^{204}Pb$, $^{208}Pb/^{204}Pb$ ratios, 84M/2793; compn. in Cape York, Grant iron meteorites, 84M/3113; model ages, unscrambling of, 84M/3628; *Sweden*, systematics in stratabound sulphide deposits, 84M/1669; compn. in Caledonian sulphide-bearing veins, 84M/4083; *Belgium*, in Pb-Zn-Ba mineralization, general genetic model, 84M/1454; *Chaudfontaine*, in galena, implications for deposit origin, 84M/1671; *Germany, north Eifel* and *north Sauerland*, data from galena occurrences, 84M/1672; *Italy, Sardinia*, compn. in galena ores, 84M/1674; *China*, study of stratabound polymetallic deposits, 84M/4087; *Japan, Funka Bay*, ^{210}Pb, removal from surface water, biological effect, 84M/2626; *Australia, Queensland, Mount Isa*, studies relevant to orebody genesis, 84M/2854; *Egypt, Egyptian Shield*, igneous rocks, Pb-isotope data, 84M/0021; *USA, Cape Lookout Bight*, ^{210}Pb sediment geochron., 84M/2984; *Narragansett Bay*, coastal mobility of natural, model and real data, 84M/0321; *California, Shasta*, from palaeo island arc, compn., 84M/2948; *Hawaii, Oahu*, evidence for basalt multiple sources, 84M/2914; *Antarctica, Napier complex*, compn. in monazites from polymetamorphic rock, 84M/4080; *Indian Ocean*, variations in basalts, 84M/2898; *central* and *eastern Indian Ocean*, ^{210} Pb distrib., 84M/3024; *Mediterranean* and *Pacific areas*, systematics of ophiolite complexes, 84M/4101; *Pacific Ocean*, ^{210}Pb, particulate and dissolved concentrations, GEOSECS measurements, 84M/3025; *GEOSECS stn. 500*, intercomparison of ^{210}Pb measurements, 84M/3063; *Costa Rica rift*, compn. in basalts, 84M/2190
—, minerals, sulphantimonates, relationship to falkmanite, 84M/0859; *Belgium, Daverdisse*, unident. in quartzites, quartz veins, 84M/1484
—, mining, pollution from, literature review, 84M/1514
—, -zinc mineralization *Scotland, Tyndrum*, S-isotope investigation, 84M/1670; *Poland*, Silesian-Cracovian, regularities of formation, 84M/1461; *France, Brioude-Massiac dist.*, fluid inclusion study, 84M/3875; *Austria, Carinthia, Bleiberg*, distrib. S-isotopes in, 84M/1675; *Bleiberg-Kreuth*, rare in Wetterstein beds., petr., 84M/3877; *Turkey, Antalya, Aydap-Yulari*, genesis, remobilization, 84M/0258; *India, Orissa, Sargipalli*, computer-assisted trend surface mapping, 84M/1806
Leadhillite, IR absorption spectrum, 84M/2546; *Scotland, Leadhills-Wanlockhead*, discovery, mining hist., 84M/1172
LEBANON, lateritic Fe-ores, deposition, 84M/0263
Lechatelierite, *Switzerland, Mt. Hahnenstock*, inclusions in fulgurite, 84M/3501
Legrandite, *Japan, Kyushu, Toroku mine*, props., chem. compn., 84M/4258
Leidenfrost effect, implications for pillow lavas, 84M/3413
Leonhardite *v.* zeolites
Lepidocrocite, *Belgium, central Ardennes*, in brown soils, implications, 84M/1325
Lepidolite *v.* mica
Leptites, *Sweden, Hjulsjö area*, K/Ar, Rb/Sr data, 84M/0009
LESSER ANTILLES, Hf-Nd-Sr isotopes, incompatible element abundancies in island arcs, implications, 84M/4122; *Grenada*, high-Ca, -Sr, C-series basalts, evolution, effects of intra-crustal contamination, 84M/2950; *Grenada*, basalt, origin, theory and reassessment, 84M/2951; *Guadeloupe*, volcanic crises, role of volcanologists, journalists, 84M/3412; *Martinique*, role of subducted sediment in island arc magma genesis, isotopic evidence, 84M/4131; *St Kitts* and *Montserrat*, geochem. evolution, 84M/4132; *Saint Lucia*, Late Quatenary explosive silicic volcanism, 84M/4419; *St Vincent*, volcanic rocks, tr. element partition coefficients, 84M/0594; volcanic crises, role of volcanologists, journalists, 84M/3412; *St. Vincent, Soufrière*, inclusions in pyroxenes from 1979 nuées ardentes, 84M/4218
Leucite, structure, effects of *T*, *P* on, 84M/1346; *USSR, Bol'shoi Anyui River*, Na-, transformation to analcite, 84M/0809
Leucite-lamproite *v.* lamproite
Leucitite, *Antarctica, Gaussberg*, volcanic cone, age, mode of formation, 84M/0038
Leucophoenicite, structure, TEM, powder XRD studies, chem. anals., 84M/2503
Leucosomes, generating processes, implications from melanosome textural relations in migmatitic pelitic schists, 84M/2239
Leucoxene, recrystallized detrital, SEM study, 84M/1057
Levyne *v.* zeolites
Lewisian rocks, *Scotland*, age, stratigraphy, 84M/0908
Lherzolite, mineral assemblages in, theoretical computation, 84M/1566; mantle, two-pyroxene geothermometry based on calculation of excess free energy, 84M/4022; *Spain, Ronda complex*, Nd, Sr-isotope study of mafic layer, 84M/2875; *Pyrenees Mtns.*, crustal splitting and emplacement, 84M/4317; *Yugoslavia, Inner Dinarides ophiolite complex*, use as decorative stone, 84M/2139; *east China*, nodules from Cainozoic basalts, flow structure, flow stress estimates, 84M/3316
—, garnet-, *Poland, Sudete Mtns.*, min. chem., 84M/4370
—, spinel-, *France, Ariège, Bestiac*, and assoc. garnet pyroxenites, 84M/3350; *France, Massif Central* and *Languedoc*, sulphide inclusions/grains in xenoliths, 84M/3208; *USA, Arizona, San Carlos*, types A, B, intrinsic f_{O_2} of megacryst ilmenite, upper mantle implications, 84M/4383
LIBYA, *Marada*, celestite crystals, new find, 84M/4571
Libyan Desert glass *v.* glasses, Libyan Desert
Lichens, weathering patterns on limestone, dolomite, evidence for contribution to terra rossa soil, 84M/3774
Liebenburgite *v.* olivine
Liebigite, *Czechoslovakia, Joachimstal*, crystal structure, 84M/3848
Life, emergence of metazoa in early history of, 84M/2339; favourability of glaciated volcanic islands, 84M/2782; origin and early evolution, organic syntheses of primitive Earth environment, 84M/2786
Light scattering tomography, use in characterization of crystal defects, 84M/1235
Lignite, *New Zealand*, formation and chem. origin, use of $^{18}O/^{16}O$ ratios, 84M/3058
Lillianite, affiliations with heyrovskyite and aschamalmite, 84M/1924; *Scotland, Corrie Buie Pb deposit*, minor constituent in quartz

Lillianite (*contd.*)
veins, 84M/1483; *Austria, Salzburg, Felbertal*, thin layers in quartz, EM, X-ray study, 84M/3878
Limestones, fine-grained shallow-water, mechanical, chem. compaction in, 84M/1105; carbon-free residues from, rapid method, 84M/3683; weathering patterns by lichens, cyanobacteria, evidence for eolian contribution to terra rossa soil, 84M/3774; *south Norway*, organic-rich, sedimentation in Late Precambrian, 84M/4140; *England, Derbyshire, Matlock area*, Asbian, Brigantian, revision of stratigraphy, 84M/1068; *Scotland, Morayshire*, Upper ORS Cothall limestone, lithology, 84M/1066; *Poland, Kosarzyska nappe*, tectonic evolution, 84M/3312; *Switzerland*, Solothurn, lithology, min., quarries for, uses, 84M/0927; *Italy, Lucania, Lagonegro*, Triassic siliceous, chert-dolomite laminations in, 84M/2209; *Bulgaria, Kreta*, 'neptunian' dykes in, 84M/2211; *India, Kerala, Quilon*, early diagenetic pyrite-glauconite assemblage in, significance, genesis, 84M/1094; *USA, Utah, Notch Peak*, metamorphosed, petr., 84M/1115; *Kenya, coastal region*, late Pleistocene, depositional history, 84M/3478
—, resources, *England, Yorkshire, Settle* and *Malham area*, 84M/0294; *Wales, Caerphilly area*, 84M/3918
Limonite, *USA, Montana, Butte* and *Dillon quadrangles*, definition of exposures in vegetated areas, use of Landsat data, 84M/0246; *Mexico, Querétaro*, pseudomorphs after hornblende as inclusions in opal, 84M/0489
Linarite, *Czechoslovakia, Smolník*, new occurrence, 84M/1180
Lindackerite, *Austria, Rauris Valley*, in Au tailings, 84M/3601
Lindsleyite (Ba), *South Africa*, new chrichtonite series mineral, 84M/0885
Linnaeite, *Austria, Waschgang*, siegenite in Au-Cu deposit, ore mineralogy, anal., 84M/3902; *USA, Missouri, Bixby, Buick mine*, siegenite, crystals, morphology, props., 84M/4264
Lipscombite, synthetic manganoan, Mössbauer, electrokinetic and refined lattice parameters, 84M/1401; *Germany, Hagendorf*, secondary, description, 84M/0877
Liquid crystals *v.* crystals, liquid
Liquids, crystal structure at interface with solids, 84M/2501
Listvenite, *USSR, Tamvatney ore cluster*, W-Hg mineralization in, relationship to igneous activity, use of geophys. data, 84M/1689
Litharge, use in Indian medicine, 84M/1527
Lithiotantite, *USSR, east Kazakhstan*, new mineral, props., 84M/1934
Lithium, in geol. samples, anal. by nuclear method, 84M/1249; diffusion in silicate melts, 84M/1560; in interlayer space in synthetic trioctahedral mica, 84M/1624; microdetn. by Weisz ring-oven technique, 84M/2418; effects on granite system, exptl. study, 84M/2750; *Italy, Roccamonfina volcano*, distrib., behaviour in K-alkaline rocks, 84M/4108; *China, Fujian Prov.*, in rare-metal pegmatite, geol., geochem., 84M/1476; *Hubei Prov., Basin Q*, in Tertiary saline formation, geochem., 84M/1746; *USA, Virginia*, content in selected spring waters, chem. data, 84M/1779
—, compounds, $LiAlSiO_4$, $LiGaSiO_4$, $LiAlGeO_4$, $LiGaGeO_4$, phase changes at high *T*, *P*, cryst., 84M/0367; LiI soln., at elevated *T*, *P*, hydration shell structures, 84M/2648; Li_2O, thermal expansion data, 84M/4537
Lithosite, *USSR, Kola Peninsula, Khibina massif*, new mineral, 84M/0886
Lizardite *v.* serpentine
Loess, thermoluminescence props. of fine grained materials, 84M/0005; *south east Poland*, clay minerals of, 84M/1322; *Canada, Alberta, Cypress Hills*, origin, petr., 84M/2224
Loeweite, *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270
Loferites, in lime mudstones, re-evaluation, 84M/1061
Löllingite, *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075
Lomonosovite, *Greenland, Ilimaussaq Kvanefjeld area*, occurrence, anals., morph., X-ray, opt., IR, thermal data, 84M/1868
LORD HOWE ISLAND, stream, ground, soil, rain water, chem., compns., 84M/3031
Lotharmeyerite, *Mexico, Mapimi, Ojuela mine*, new mineral, props., 84M/1935; occurrence, description, 84M/2316
Ludlamite, *Mexico, Chihuahua, San Antonio mine*, 3″ long crystals, 84M/2330
Luminescence, room-*T* of kaolin, induced by organic amines, 84M/3740; varying intensities in Libyan Desert glass, implications, 84M/4209
Lunar studies, origin of Moon, geochem. constraints, 84M/3071; lunar core and Moon's origin, 84M/4186; mineral differentiation in protoplanetary gas-dust cloud and Moon's formation in planetary system, 84M/4188
—, magnetism, polar displacements, primeval satellites in Earth-Moon system, 84M/3074
—, mineralogy, new information, 84M/4189
—, rocks, Appollo 17 drive tube 74002/1 orange/black glasses, S content, isotope compn., 84M/0730; highland fragments in mare regolith, possible clue to early lunar petrogenesis, 84M/0731; granite clasts in Apollo 14 breccias, petr., chem., 84M/1813; Apollo 11 highland component, petr., 84M/3068; light element geochem. and spallogenesis, 84M/3070; Al-Sm-Eu-Sr systematics, implications for planetary bulk compns., 84M/3072; ^{129}I measurement by tanden accelerator mass spectrometry, 84M/3114; *Cayley Plains*, subophitic lithologies in KREEP-rich impact melt rocks, implications, 84M/4190
—, soil, ^{26}Al in, first accelerator mass spectrometry measurement, 84M/3630
—, volcanism, pre 4200 m.y. mare-basalt volcanism in highlands, 84M/3069; mare volcanism, beginning and end of, 84M/3073; volcanic processes, comparison with Earth, Mars, Venus, 84M/3083
Lun'okite, *USSR, Kola Peninsula, Lun'ok River*, new Mn analogue of overite, 84M/0887
Lutetium, distrib. in ilmenite from various igneous rocks, 84M/1667
—, isotopes ^{176}Lu, decay to ^{176}Hf, geol. applications, 84M/2813
Maars, *Iran, Qal'eh Hasan Ali*, petr., geol., 84M/3426; *Ethiopa, Haro Majo*, geophys., geol., 84M/3424
Macaulayite, *Scotland, Inverurie*, new mineral, props., 84M/1936
Macfallite, *USA, Michigan, Keweenaw Co., Clark mine area*, occurrence, description, 84M/2317
Machatschkiite, crystal structure, 84M/2548; crystal structure, revision of chem. formula, 84M/3851
Mackinawite, *Cyprus, Limassol Forest*, in serpentinite, 84M/2075
Macphersonite, IR absorption spectrum, 84M/2546; *Scotland, Leadhills* and *France, Argentolle mine*, new mineral, data, 84M/3243
Madagascar v. Malagasy Republic
Madeira v. Portugal
Madocite, microprobe data, 84M/3209
Maenite, *Norway, Hadeland, Gran*, sills, geol., 84M/4355
Mafic complexes, *Japan, Gifu Pref., Makido complex*, geol., petr., 84M/4388; *Australia, NSW, Great Serpentine Belt*, in Palaeozoic arc, 84M/2132; *Ethiopia, Tulu Dimitri*, geochem. data, genetic significance, 84M/2882
—, cumulates v. cumulates
—, rocks, *Germany, Münchberg massif*, U/Pb zircon dating, 84M/2087; *Spain, Ordenes complex*, ophiolitic, geochem., 84M/2147; *USA, Alaska, Adak Island*, inclusions, crystallization history, implications, 84M/3367; *Pacific Ocean, Garret transform fault, 13°30′S*, igneous petr., 84M/2064
Magma, transport props., exptl. methods for detn., 84M/0350; genesis at active continental margins, role of sub-continental lithosphere, 84M/1710; parental of alkaline-earth series rocks, melt microinclusion study, 84M/2013; ore-magma systems, gas phases of, 84M/2554; partition coefficients of *RE* elements in, effects of *P*, 84M/2857; mixing basaltic, dacitic by forced convection, 84M/3331; formation and ascension, mechanics, energetics, 84M/3404; heat transfer in generation, exptl. study, 84M/3949; igneous, physicochem. conditions of native metal formation in, 84M/4093; sources for granitoids in contrasting arcs, comments, 84M/4121; origins and crust-mantle evolution, implications from island arc Hf-Nd-Sr isotopes, 84M/4122; mixing, significance of ferrodioritic liquids in, 84M/4363; fracture beneath mid-ocean ridges, cause of median valley, 84M/4558; *Greenland, Inugssugssuaq nappe*, structures generated by, Late Archaean development, 84M/0954; *France, Ballons massif*, sialic contamination, evidence from cumulates in gabbro-dioritic orthocumulates, 84M/0962; *Papua New Guinea, Cape Vogel*, primary boninite, evidence, 84M/2034; *South Africa, Bushveld complex*, addition, possible decoupling of major- and tr. element behaviour, 84M/0573; parental,

Magma (*contd.*)
exptl. data at 3 kbar, 84M/1567; genesis in intra-oceanic island arcs, relation of *South Sandwich Islands* volcanic rock Pb-isotope compns., 84M/0581; *Canada, Ontario, Mamainse Point formation*, genesis in Late Proterozoic proto-oceanic rift, *RE*-, tr.-element data, 84M/2920; *Quebec, Cape Smith fold belt*, evolution in Proterozoic rifting environment, 84M/2042; *USA, Columbia Plateau* and *north western great basin*, compn. of Cainozoic basalts, tectonic influence, 84M/3401; *Hawaii, Oahu, Moiliili*, undersaturated alkaline ultrabasic, low-*P* fractionation, 84M/2061; *Montana, Stillwater complex*, evolution, prelim. study using *RE* data for whole rocks, cumulate feldspars, 84M/2008; *Pennsylvania, Fayette Co.*, mixing in low velocity zone, evidence from kimberlitic megacrysts, 84M/4397; *Martinique*, island arc, role of subducted sediment in genesis, isotopic evidence, 84M/4131; *Mexico, Los Humeros caldera*, genesis, chamber processes, Nd, Sr-isotope data, 84M/2952; *Colombia, Gorgona Island*, correlations of type with Pb isotope variations, 84M/4133; *central Chile* and *Peru*, genesis and subduction geometry, 84M/3402
—, alkaline, ultramafic xenoliths in, evidence for mantle heterogeneity modified by magmatic activity, 84M/1704; alkalic, origin from mantle eclogite and carbonate, 84M/2655; *Australia, NSW, Southern Highlands province, RE* element, isotopic study, evidence for CO_2- and *LREE*-rich mantle below, 84M/2908
—, alkaline basic, felsic mineral crystallization trends in differentiating, 84M/3180
—, basaltic, parental of ophiolites, compn., 84M/2083; genesis, relevance of dry peridotite melting expts at high-*P*, 84M/2718; Soret separation of mid-ocean ridge, comment on previous paper, 84M/3443; small Soret effect in spreading centre gabbros, 84M/3444; density changes during fractional crystallization, fluid dynamic implications, 84M/4350; *Ireland, Co. Antrim, Tieveragh*, contamination of, 84M/3307; *Italy, western Sicily*, silicic segregations from in igneous rocks, mechanism, 84M/0965; *Japan arc*, lateral variation of *RE* element pattern, 84M/2905; *USA, Alaska, Edgecumbe volcanic field*, assimilation of crustal material by, Sr-isotope, tr. element data, 84M/2918; *California, Coso volcanic field*, crustal interaction, compositional zonation in source regions, Pb, Sr isotope evidence, 84M/4401
—, basic evolution at depth, behavioural synchroneity of Au, Sb, 84M/2863
—, dacitic, *Japan, Usu volcano*, gradual bubble growth in, possible cause of 1977–78 activity, 84M/4412
—, granitic, simultaneous crystallization of quartz-feldspar intergrowths from, 84M/0805
—, granitoid, in subduction zones, deep-seated parentage, exptl., thermal constraints, 84M/1554; generation from mantle material, new data, 84M/2014; *USSR, Buryat ASSR, Transbaikal*, generation, participation of mantle fluids, evidence from gas anal., 84M/1662
—, komatiite, generation, gravitational differentiation in deep upper mantle, 84M/3980
—, ophiolitic, *Greece, Guevgueli complex*, differentiation of, 84M/2102
—, rhyolitic, degassing during shallow intrusion, eruption, H isotope evidence, 84M/4097; *USA, California, Coso volcanic field*, crustal interaction, compositional zonation in source regions, Pb, Sr isotope evidence, 84M/4401
—, silicic, pyrrhotite-bearing, fugacities of sulphurous gases, 84M/3983
—, subalkaline, exptl. studies in system MgO-FeO-Fe_2O_3-$NaAlSi_3O_8$-$CaAl_2S_2O_8$-SiO_2, 84M/0346
Magma chambers, *Italy, Phlegrean Fields*, petrogenetic processes in, implications for from chem. variations in Ca-clinopyroxenes, 84M/0781; *Sultanate of Oman, Semail ophiolite*, evidence from gabbro variation, internal structure, layering, 84M/2108; evidence from cryptic variation, min. chem., 84M/2109; *Turkey, Antalya*, ophiolitic, evidence for multiple intrusions in, 84M/2105; *Japan, Osuzuyama*, zoned for acid rocks, 84M/2036; *USA, Hawaii, Kilauea, Halemaumau*, beneath lava lake, 84M/1040; *Mexico, Los Humeros caldera*, processes in, Nd, Sr-isotope data, 84M/2952; *Pacific Ocean, Costa Rica rift*, compositionally nearly steady-state, evidence, 84M/2197
Magmatic rocks, *Iceland*, chem. characteristics, comparison with ocean floor, 84M/2146
Magmatism, due to lithospheric doubling and shifting, 84M/3334; *southern west Greenland*, recurrent alkaline, age, 84M/1202; *Scotland*, Caledonian and earlier, 84M/0913; *USSR, Baikal-Aldan belt*, potassic alkaline, 84M/0980; *Italy, Calabria-Peloritani arc*, Hercynian and pre-Hercynian, 84M/3353; *Yugoslavia, Slavonia*, spilite-keratophyre, characteristics, 84M/0972; *Bulgaria, Plovdiv graben*, central Alpine in basement, evolution of, 84M/0935; *India, Rajasthan, Malani*, hot-spot, evidence for from igneous suite, 84M/4386; *south east China*, Jurassic/Cretaceous, relationship with tectonism, plate tectonics, 84M/2031; *Australia, Queensland, Mary Kathleen*, geochron., 84M/0273; *Morocco, central Haut Atlas*, Mesozoic alkaline, assoc. thermic phenomena, 84M/0983; *Sidi-Bettache basin*, Devonian-Dinantian, 84M/0937; *Cape Verde Islands, Maio*, K/Ar, $^{40}Ar/^{39}Ar$ data, 84M/2342; *Canada, British Columbia, southern Kootenay arc*, Jurassic to mid Cretaceous, geochron., tectonic implications, 84M/4337; *western USA*, ultrapotassic, relationship to Yellowstone plume, 84M/0590
Magnesiochloritoid *v.* chloritoid, magnesio-
Magnesite, effect of mechanical energy on finely ground, 84M/0433; formation from hydromagnesite at 150°–200°C, 84M/0435; quantitative XRD anal., 84M/2407; genesis, exptl. studies, application to deposits assoc. with ultramafic rocks, 84M/3998; *Yugoslavia, Inner Dinarides ophiolite complex*, in ultramafic rocks, 84M/2139; *West Carpathians*, distrib of tr. elements in, 84M/0529; *Australia, Northern Territory, Rum Jungle, T* control on morphology, fluid inclusion study, 84M/3220
—, deposits, *Spain, Navarra, Asturreta*, min., geochem., genesis, 84M/2613; *India, Karnataka, Mysore dist.*, mode of occurrence, origin, 84M/0297
Magnesium, distrib. between ortho-, clinopyroxene in metamorphic rocks, site-occupancy interpretation, 84M/0780; future in USA and World economy, (book), 84M/1256; in pelecypod shells, AAS anal., 84M/1745; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; detn. in fossil gastropods, bivalves, 84M/2838; content in Allende meteorite inclusions, use of modified ion microprobe, 84M/3098; partitioning between melilite, olivine, clinopyroxene in lavas, 84M/4024; *Barbados*, in Holocene/Pleistocene corals, 84M/0614
—, compounds, $MgAl_2O_4$-spinel, shock effects in, 84M/1578; $MgCl_2$ in aqueous soln., electrical conductances, ionization constants to 400°C, 4000 bars, 84M/1603; ortho-, clinopyroxene-type $MgGeO_3$, crystal structure, 84M/1365; $MgGeO_3$ polymorphs with pyroxene structure, flux growth, phase relations, crystal structure, 84M/2727; MgO, detn., anal. method, 84M/0070; MgO single crystals, O self diffusion in, 84M/0410; MgO, effect on Al_2O_3 sintering characteristics, 84M/0411; MgO, oxygen diffusion in, 84M/2663; MgO, thermal expansion anomaly, low-*T* internal friction, 84M/4529; MgO, apparent, lattice and radioactive thermal conductivity at 300 to 1500°K, *P* to 5·6 GPa 84M/4530; MgO, thermal expansion data 84M/4536; *Sultanate of Oman*, $Mg(OH)_2$ precipitated from groundwater, significance to serpentinization, 84M/3205; $MgSiO_3$ gels, dissolution with organic agents, 84M/0690; synthetic $MgTiO_3$ single crystals, chatoyancy, gemmological use, 84M/1643
—, ions, Mg^{2+} incorporation into calcite overgrowths, influences of growth rate, soln. compn., 84M/0380
—, salts, *Spain, La Mancha, Laguna de Tirez*, growth in recent playa lake, 84M/1074
Magnetic studies, intro. to geomagnetism (book), 84M/0084; pseudo-single-domain and multidomain magnetite, alternating field characteristics, 84M/1154; domain structure in igneous rocks, detn. by alternating field and other methods, 84M/1155; *South Georgia, Scotia Sea*, geomagnetic variations, influence of tectonic boundaries on, 84M/1163
—, anomalies, amplitudes in oceanic, variation with sea-floor spreading rate, possible implications, 84M/1162
—, maps *v.* maps
—, minerals, *Gulf of California*, diagenesis in Recent hemipelagic sediments, 84M/3496
—, palaeomagnetism, relationship with strain rates, crustal thickening, finite strain, fault movements in deforming zone, 84M/2334; *Scandinavia, south west Fennoscandian shield*, Sveconorwegian mobile belt, 84M/4306; *Sweden, Alnön complex*, plutonic rocks, sövite ring dykes, alnöite dykes, 84M/2287; *England, Cornwall, Lizard complex*, 84M/3587; *Czechoslovakia, central* and *southern Slovakia*, alkaline

Magnetic studies, palaeomagnetism (*contd.*) basalts 84M/1166; *Turkey, Pontic Ranges*, basaltoids and ores, 84M/1198; *China, northern Bohai coastal plain*, drill core studies, 84M/3483; *North America*, Precambrian rocks, look at data base, 84M/1161; *USA, Nevada, Yerington dist.*, structural deformation, 84M/1165; *Moon*, magnetism, polar displacements, 84M/3074
—, properties, crocidolite asbestos, order in, 84M/2282
—, thermomagnetism, *USA, Georgia, North* and *South Carolina*, late orogenic granites, gneisses, 84M/3588
Magnetism, planetary, recent developments in dynamo theory, 84M/1160
Magnetite, scales growing on Fe, dil. Fe-Si alloys, dominant growth control, 84M/0348; spinel, stability, 84M/0407; pseudo-single-domain and multidomain, alternating field characteristics, 84M/1154; in ferruginous quartzites, morphology, ontogeny, 84M/1875; biogenic particles in aquatic bacteria, morphology, structure, 84M/3199; from layered complexes, Pd, Pt, Ir, Au content, 84M/4249; *central Sweden*, in Fe, sulphide ores, chem. compn., 84M/0832; *USSR, Krivoi Rog*, in ferruginous quartzites, morphological peculiarities, 84M/3198; *Lower Tunguska region*, mineralization, genesis, 84M/0268; *Austria, Kottaum-Arzberg mine*, in pyroxene rock, opt., X-ray, chem. studies, 84M/2593; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *India, Andhra Pradesh, Kanigiri area*, with Nb minerals in granitic rocks, 84M/0575; *Himalaya, Mangsu La area*, crystals in tuff, 84M/3427; *Mongolia, Baiyun Ebo Fe deposit*, O isotope compn., 84M/2823; *New Zealand, Wairakei*, in geothermal steam pipelines, new evidence on O-isotope geothermometers, 84M/1666; *South Africa, Bushveld complex*, vanadiferous, geochem., implications for layered complex crystallization mechanisms, 84M/1876
—, deposits, *India, Orissa, Kumhardubi* and *Betjharan* vanadiferous, geochem., 84M/4075; *USA, North Carolina, Cranberry deposit*, geol., 84M/2604
Makatite, *USSR, Kola Peninsula, Mt. Alluayv*, first USSR finding, props., 84M/4247
Malachite, synthetic, XRD, IR, TGA props., 84M/3847; *Bulgaria, Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *USA, Arizona, Glove mine*, occurrence, 84M/4609; *New Water Mtns.*, possible chrysocolla pseudomorphs after, 84M/2327; *Silver Bill mine*, occurrence, 84M/2329
MALAGASY REPUBLIC, betafite, XRF anal., 84M/1888; orthoclase, Al-Si ordering, quantitative study by analytical TEM, 84M/2523
MALAWI, *Chimwadzulu*, 'silk' in sapphires, 84M/0486
Malayaite, *USSR, Kan'onsk deposit*, new data, 84M/0759; *Australia, NSW, Gumble*, from skarn, data, 84M/1823
MALAYSIA, *east*, Na- pyrophosphate extracts of soils, removal of suspended material from, 84M/3716; *Pulau Langkawi*, laterite soil, genesis, geochem. characteristics, 84M/1336; *Sarawat*, clay min. suites and parent rocks, relationships in 8 profiles, 84M/0143
MALI, *north east*, Permian alkaline undersaturated and carbonatite province, 84M/3369; *Adrar des Iforas*, deformation in mylonitic shear zone, influence on radiochronology, 84M/0022; *Gourma*, Upper Proterozoic formation, pedogenic, diagenetic fabrics, 84M/2215
Mandarinoite, *USA, Idaho, De Lamar mine*, opt., chem., X-ray, 84M/0839
Manganates, K_2MnO_4, cryst. struct., 84M/0185
Manganese, solubility and availability in calcareous soil, effect of redox, 84M/0096; particulate in fresh-water, size distrib., 84M/0643; future in USA and World economy, (book), 84M/1256; extraction from soil organic matter, use of NaOCl, 84M/1284; bonds with O, bond length-bond strength relationships at any oxidation state, 84M/1355; extractable amount in settling ponds, prediction, 84M/1516; substitution, inclusion in synthetic chlorapatite, 84M/1601; in pelecypod shells, AAS anal., 84M/1745; in marine sediments, pore water/solid phase diagenetic model for, 84M/1756; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; detn. in fossil gastropods, bivalves, 84M/2838; *Norway, Boltstadfjord*, in waters, sediments,; geochem., 84M/3937; *Belgium*, content in Fe-sulphides, 84M/1897; *Italy, Sardinia*, geochem. in fluorite deposits, 84M/0532; *Sant'Antioco Isthmus*, content in Plio-Pleistocene sediments, 84M/1747; *Canada, Lake Erie*, Mn-rich microparticles in eastern basin, 84M/0661; *USA, Washington, Puget Sound*, forms, total amounts in aqueous samples, quantitative ESR detns., 84M/0328; *Pacific Ocean, central Mexico shelf,, 18°N, 108°W*, transport through O minima, VERTEX programme results, 84M/4136
—, agglomerates, *Bulgaria, Obročišta*, distrib., of P in minerals of, 84M/1687
—, compounds, Mn-oxides, photoreduction in sea-water, geochem., biol. implications, 84M/3022; oxides, adsorption of humic substances by, 84M/3046; Mn (IV) oxide, significance in natural abiotic formation of organic N complexes, 84M/4171; MnO, thermal expansion data, 84M/4536; MnO_2, thermal expansion data, 84M/4537; *USSR, Urals, Akhtenskoe deposit*, natural analogue of ε-MnO_2, first occurrence, 84M/3255; *Solomon Islands*, oxides, mineralogy in exhalative environment, 84M/1880; *Panama Basin*, $MnCO_3$ overgrowths on foraminifera tests, 84M/2960
—, deposits, *Alps, Northern Calcareous Alps*, stratabound, possible origin, 84M/2589; *Hungary, Úrkút*, submarine volcanogenic, paragenesis, 84M/1486; *Japan, Gumma Pref., Seta dist.*, bedded, alabandite occurrence in, 84M/3893; *Ivory Coast, Bafo-Guéto hills*, paragenesis, chem. alteration, 84M/1465; *South Africa, Griqualand West*, genesis, 84M/1467; *Mexico, Baja California Sur, Lucifer deposit*, geol. setting, origin, 84M/1508; *USA, Virginia Mill Creek, Mountain Lake* and *Peters Mountain Wilderness area*, resources, 84M/1505
—, encrustations, *Gulf of Guinea*, from seamount, anal., 84M/2844; *Atlantic* and *Pacific Oceans*, deep-sea, spatial variation of U-Th series radionuclides, tr. metals, 84M/4089
—, formations, *India, Karnataka, North Kanara* and *Kumsi*, quartzo-feldspathic schists/phyllites with, petr., 84M/2267
—, ions, Mn^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797
—, -iron concretions *v.* concretions
—, isotopes, ^{53}Mn content in deep-sea iron/stony spherules, 84M/0749; ^{53}Mn, concentration of cosmogenic in Isna meteorite, 84M/1816
—, minerals, tetravalent layer-lattice minerals, influence of clay mineralogy on crystallization, 84M/2484
—, nodules *v.* nodules, manganese
—, ores, *Ivory Coast, Ziemougoula* and *Gabon, Moanda*, lateritic, manganite formation in first stage, 84M/0838
—, spike, *east equatorial Pacific Ocean*, 84M/3027
Manganhumite, *USA, North Carolina, Bald Knob*, min., phase equilibria, 84M/3121
Manganite *Ivory Coast, Ziemougoula* and *Gabon, Moanda*, formation in first stage of lateritic Mn ores, 84M/0838; *Solomon Islands*, precipitation in exhalative environment, 84M/1880
Manganocolumbite, *England, Devon, Meldon*, occurrence in aplite, microprobe anal., 84M/4254
Manganotantalite, *England, Devon, Meldon*, occurrence in aplite, microprobe anal., 84M/4254; *USSR, Kola Peninsula*, replacing simpsonite, 84M/0841, *Argentina, Hombre Muerto*, in veins in gneisses/schists, microprobe anals., 84M/0278
Mangerite, *USSR, Kolvits* and *Kalar Massifs*, pyroxenes from, 84M/3141
Mantle plumes, and hotspots, comment, 84M/3609; reply, 84M/3610
Maps, geol., geophys. of mineralized areas, image processing of coincident binary patterns, 84M/2939; *Irish continental shelf*, compilation magnetic, 84M/3309; *Switzerland*, first geol., description, reproduction, 84M/0926; *India, Rajasthan, Batia area*, generalised metamorphic map, study, 84M/3547; *China*, linear structures, tectonic map, 84M/0943; *Tanzania*, aeromagnetic, radiometric for min. exploration, integrated interpretation, 84M/1430; *USA, Virginia, Culpepper basin area*, aeromagnetic contour, 84M/1164; *Culpepper basin* and *vicinity*, total-count aeroradiometric contour map, 84M/1658
Marble, low-*T* thermoluminescence, possible correlation with stress history, 84M/3576; *Finland, Lapland*, chrome-, small deposits, descriptions, 84M/4055; *Spain, Huelva, La Garranchosa*, calc-silicate nodules in, compn., texture, 84M/3499; *Italy, Carrara*, quarrying, use of diamond wire, 84M/1239; *Greece, Naxos*, graphite-bearing, data, significance to calcite-graphite iso-

Marble (*contd.*)
tope thermometer, 84M/2819; *Australia, Queensland, Einasleigh*, ^{13}C-rich in metamorphic sequence, 84M/0621
Marcasite, rates of reaction with ferric Fe at pH2, 84M/3992; *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Sri Lanka, Mectiyagoda*, occurrence, 84M/0502; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Pacific Ocean, Costa Rica rift*, secondary in basalts, 84M/2186
Margarite *v.* mica
MARIANA ISLANDS, Hf-Nd-Sr isotopes, incompatible element abundances in island arcs, implications, 84M/4122; origin of Ce-anomalous basalts, implications from pelagic sediment subduction, 84M/4123; *Saipan Island*, low-K rhyolites from Mariana frontal arc, origin, 84M/1733
Marianites *v.* lava, pillow
Mariposite-bearing rocks, *USA, California, south-central Mother Lode*, isotopic studies, 84M/0547
Marl, *Egypt*, Phanerozoic, major changes in mineralogy, 84M/0122; *Canada, south Ontario*, lake sediments, implications for radiocarbon dating from isotopic, geochem. compn., 84M/0660
Marlstones, *Austria, Vienna Basin, Aderklaa borehole*, Tertiary, diagenesis, 84M/3760
Marokite, disproportionation at high-*P*, *T*, geophys. implications, 84M/2687
MARQUESAS ISLANDS, large mantle heterogeneity beneath, 84M/4120
Mars *v.* planets
Marsturite, *USA, New Jersey*, description, 84M/4606
Maskelynite, *USSR, Ukraine, Il'inets astrobleme*, albitization in shock-metamorphosed rocks, 84M/1817
Masutomilite *v.* mica
Mathiasite (K), *South Africa*, new crichtonite series mineral, 84M/0885
Matildite, *Austria, Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902; *USA, California, Darwin area*, exsolved in galena, 84M/4607
Matlockite, *England, Derbyshire*, occurrences, literature review, min., geochem., 84M/2291
Maucherite, *Cyprus, Limassol Forest*, in serpentinite, 84M/2075
MAURITIUS, *Port Louis area*, igneous petrology, 84M/0990
Maw-sit-sit, *Burma, Mogok*, chrome jadeite component is first terrestrial occurrence of ureyite, 84M/0828
Mawsonite, *England, Cornwall, St. Austell area*, disseminated in granite, 84M/3211
Medaite, *Italy*, occurrences, description, 84M/2313
MEDITERRANEAN AREA, 'karst bauxites' and parent rocks, tr. element content, 84M/1760; ophiolites and related Mesozoic volcano-sedimentary sequences, 84M/2093; ophiolite complexes, Pb isotope systematics 84M/4101
MEDITERRANEAN SEA, thiosulphates in ooze solutions, 84M/0600; *coastal areas*, distrib., vertical transport of hydrocarbon residues, biogeochem. processes affecting, 84M/0694; *Strabo trench*, recent metallogenesis of pelagic sediments, 84M/2145
Meionite *v.* scapolite
Melagabbros, *Italy, Punta dell Pietre Nere*, mafic minerals from, petr. significance, 84M/3355
Mélange, *Norway, Støren, Soknedal*, nature, tectonic setting, 84M/3448; *England, south Corwall*, sedimentary, stratigraphy, 84M/0923; *Ireland, Co. Mayo, Clew Bay*, ophiolitic separating ortho-, para-tectonic Caledonides, 84M/3454; *Turkey, Anatolia, Ankara*, importance for Tethyan closure reconstruction, 84M/3457; *Saudi Arabia, Arabian Shield*, Upper Proterozoic ophiolitic, 84M/2148; *USA, Virginia, Piney Branch complex*, nature and origin, comment, 84M/4442; reply, 84M/4443; *South Orkney Islands, Fredriksen Island*, with subduction-accretion complex rocks, 84M/4334
Melanosomes, textural relations in migmatitic pelitic schists, implications for leucosome-generating processes, 84M/2239
Melanothallite, phase transformations, thermal deformations at −190°–400°C, 84M/0421
Melanterite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Melaphyre, *Poland, Rudno*, secondary minerals in, 84M/0975
Melasyenite, *Italy, Punta delle Pietre Nere*, mafic minerals from, petr. significance, 84M/3355
Melilite, crystallization in system nepheline-diopside-apatite, Sr fractionation during, 84M/1612; with olivine, clinopyroxene in lavas, partitioning of Fe, Mg between, 84M/4024; *Italy, Rome, Alban Hills*, from ejecta and lavas, opt., EM, XRD studies, 84M/4216
Melilitites, *Europe*, isotope and tr. element evidence for alkali basalt to kimberlite transition, 84M/0556; *South Africa, Saltpetre Kop* and *Sutherland Commage*, olivine-, petr., 84M/4385
Melonite, *Japan, Yokozuru mine*, occurrence, opt. props., paragenesis, 84M/1902
Melts, immiscible in system pyroxene-apatite-villiaumite, differences from diopsidic system, 84M/0392; NaF-AlF_3, vapour-phase studies, AlF_3 rich part, 84M/0443; NaF rich part, 84M/0444; inclusions in syenite porphyry phenocrysts, compn., 84M/0953; high-K, Al-rich, formation of, 84M/0979; on joins $NaAlO_2$-SiO_2, $CaAl_2O_4$-SiO_2, $MgAl_2O_4$-SiO_2, influence of *P* on structure, 84M/2666; quartz-albite in equilibrium with synthetic quartzite, texture, distrib., infiltration tendency, 84M/2747; immiscibility in, factor in early differentiation of meteorites, planets, 84M/3950; $Na_2O{\cdot}xSiO_2$-Fe-O, redox equilibria, anionic structure, effect of f_{O_2}, 84M/3975; in system Na_2O-Al_2O_3-SiO_2-Fe-O, props., 84M/4035; *Italy, Balmuccia peridotite*, partial, differentiation in mantle, evidence, 84M/0963; *Sumatra*, Toba Tuffs, melt compns., 84M/1030; *South Africa, Bushveld*, chilled margin rocks, density, viscosity characteristics, 84M/2665
—, alkali exptl. frame of magma generation, expected geostructural sites, 84M/1556
—, aluminate, silicate polymerization in, 84M/2497
—, diopside, solution of H_2O in, thermodynamic model, 84M/2730; diffusion of O in at high-*P*, 84M/4017
—, granitic, metastable melting in, 84M/1553; role of F, B in generation, 84M/1555; zircon dissolution, Zr diffusion, kinetics, 84M/1610
—, ignimbritic, layering of, 84M/1024
—, jadeitic, effect of *P* on diffusivity of network forming cations, 84M/2636; diffusion of O in at high-*P*, 84M/4017; diffusion of network-forming cations in at high-*P*, 84M/4018
—, kimberlitic, *USA, Pennsylvania, Fayette Co.*, mid- to late-stage evolution, evidence, from phlogopite, oxides, 84M/4233
—, silicate, structure of, 84M/0353; quenched at 1 atm., anionic constitution, implications for igneous melt structure, 84M/0354; alkali silicate, behaviour of Mo in, effects of excess SiO_2, CO_2, 84M/0355; Li diffusion in, 84M/1560; viscosity, 84M/1561; basic silicate, and Cr-spinel, partitioning of ferric Fe between, 84M/3973; silicate and Fe sulphide, Ni partitioning between, 84M/3976; density-viscosity studies, radiographic detn. of Pt sphere positions, 84M/3984; $Fe^{2+} \rightleftharpoons Mg^{2+}$, $TiAl_2 \rightleftharpoons MgSi$ exchange reactions with clinopyroxenes, 84M/4109; Fe-bearing silicate, effect of *P* on structure, 84M/4033; Fe-bearing alkaline-earth silicate, relations between redox equilibria of Fe, melt structure, liquidus phase equilibria, 84M/4034
Meneghinite, microprobe data, 84M/3209
Mercury, sublimation *T*, indicator of min. compn., zoning in ore deposits, 84M/0537; future in USA and World economy, (book), 84M/1256; detn. of trace amounts in natural water, application of clelating resin, 84M/2429; speciation in hydrothermal systems, applications to ore deposition, 84M/3952; intrusion porosimetry of *New Zealand* soils related to clay mineralogy, texture, 84M/3726; *South Africa, Witwatersrand* and *Barberton*, in single Au grains, implications, uses, 84M/1870; *USA, Colorado, Piceance Creek basin*, adsorption by soils, 84M/0316
—, compounds, HgS, electronic structure, 84M/1391; *Belgium, Daverdisse*, unident. in quartzites, quartz veins, 84M/1484
—, deposits, *USSR, Gornyi Altai, Chagan-Uzun*, geol. features of deep horizons, min. zonations, 84M/0285; *Tamvatney ore cluster*, in listvenite, relationship to igneous activity, use of geophys. data, 84M/1689; *China*, regional distrib., regularity, main characteristics, 84M/1426
—, isotopes, natural fractionation, possible mechanism, 84M/0515
Mercury *v.* planets
Mesolite *v.* zeolites
Mesozoic rocks, *Denmark, Bornholm, in situ* thermal conductivity measurements, 84M/1168; *South China*, granite genetic series, examples, 84M/2032
Meta-ankoleïte, luminescence at 4·2K, 84M/3573

Metabasalts, *Canada, Ontario, Maybrun mine*, quench-textured pillowed, and Cu mineralization, 84M/3915
Metabasic rocks, *Italy, southern Calabria*, petr., 84M/3538; *India, Bihar, Singhbhum dist.*, in Dalma volcanic belt, petrography, chem. petr., 84M/0636
Metabasites, *Norway, Arendal, RE* element, Th-Hf-Ta and large-ion lithophile element variations in, 84M/0627; *Sweden, Hjulsjö area*, K/Ar, Rb/Sr data, 84M/0009; *West Carpathians*, geochem. of Fe-group elements in, 84M/0635; *New Zealand, Southern Alps*, magma type, tectonic setting, 84M/4438
Metacarbonates, *Italy, southern Calabria*, petr., 84M/3538
Meta-dolerite, *Australia, NSW, Glenrock Station*, subcalcic Fe-rich amphiboles in, 84M/1844
Metagabbro, ilmenite from, geochem. features, 84M/0826; *Norway, Setesdalsheiene*, petr., 84M/3523; *France, Brittany, Chateaudren*, evidence from shear zones for softening during progressive mylonitization, 84M/3527; *Alps, Penninicum*, petr., compn., 84M/3532; *Italy, Liguria, Gruppo di Voltri*, high-*P* Eo-Alpine parageneses in, 84M/2233; *Hungary, Vaskereszte*, petr., 84M/3532; *Japan, Shikoku, Iratsu mass*, margarite-bearing, 84M/3166
Metahalloysite, *USSR, Urals*, on weathered emerald-bearing mantle, implications, 84M/1342
Meta-igneous rocks, statistical evaluation of metasomatic effects, 84M/0615
Metals, flow in global atmosphere, criticism of previous paper, 84M/0329; noble, enthalpy of formation of solid compounds with chalcogens/halogens, prediction, 84M/0338; volatilities in steam-containing environments, predictive calculations, 84M/0340; simultaneous detn. of noble in geol. samples by radiochemical NAA, 84M/2444; interfaces with oxides, study using sputter ion plating, 84M/3672; native, formation and stability in igneous magmas, physicochem. conditions, 84M/4093; refractory, specific heat in solid, liquid state, 84M/4534
Metamorphic aureoles, *USSR , Tuva, Ular granitoid massif*, andalusite, sillimanite formation in, 84M/1829; *France, Massif Central, east Rouergue*, high-*P*, staurolite-producing reactions, geothermobarometry, 84M/4475; *Canada, Labrador, Kiglapait*, geothermometry, 84M/4483; *USA, Utah, Notch Peak*, metamorphosed limestone, petr., 84M/1115
—, belts, *Japan, Ryoke-Sanbagawa belt*, formation, model, 84M/1142; *Shikoku, Bessi area*, high-*P* intermediate type, phase equilibria in highest grade zone, 84M/1143; *Colombia, central Cordillera*, Palaeozoic paired, 84M/4521
—, complexes, *Turkey, Bitlis*, age, new results, 84M/1131; *Egypt, Sinai, Wadi Kid area, P-T* conditions, implications for Pan-African event in SE Sinai, 84M/4481; *Antarctica, Shackleton Range*, geol., 84M/1146; *South Shetland Islands, Clarence Island, Cape Bowles*, Scotia complex, geol., 84M/3555
—, conditions, *India, Rajasthan, Karera*, in polymineralic paragneisses, 84M/3548
—, environments, Mg-Fe fractionation in, 84M/2640
—, equilibria, at high-*T*, *P*, consequences of non-ideal mixing in system H_2O-CO_2-NaCl on phase relations, 84M/2658; *USA, southern Blue Ridge province*, of volatiles, 84M/3563
—, facies, greenschist/amphibolite boundary in mafic systems, exptl. characterization, 84M/1571; upper amphibolite facies conditions, fluids and melting under, 84M/1572; granulite, processes in, 84M/2242; *Austria, Bohemian massif*, granulite, garnet-clinopyroxene rocks in, petr., 84M/3519; *Tibet, Xuzang, Yarlung Zangbo (Tsangpo)*, high-*P*, low-*T* greenschist rocks, new finds, 84M/2269; *Japan, Kasuga* and *Yap Islands*, greenschist-amphibolite transition equilibria at low-*P*, 84M/2271; *Taiwan, Mu Kua Chi area*, greenschist, min., 84M/4498; *North America, Adirondack Mtns.*, granulite, fluid heterogeneity during metamorphism, 84M/4158; *Canada, Ontario, Gutcher Lake*, greenschist, of Archaean assemblage, 84M/2238; *Mexico, Baja California, Cerro Prieto geothermal system*, telescoped low-P,T series, 84M/3510
—, fluids, compn. characterization through mineral equilibria, 84M/1772; *USA, New York, Adirondack Mtns, Indian Lake quadrangle*, in deep crust, evidence, 84M/3559
—, maps *v.* maps
—, minerals, compositional zoning, inclusions in, 84M/1775
—, petrology, *USA, south central Maine*, applications of reaction process variable, 84M/2277
—, rocks, distrib. of Mg, Fe between ortho-, clinopyroxene in, 84M/0780; fluid inclusions in high-grade anatectic metamorphites, 84M/1117; field description, (book), 84M/2458; atlas of fabrics (book), 84M/3693; *Norway, Strand Peninsula*, polymetamorphic, genesis, 84M/3522; *Scotland, Foyers granitic complex*, metamorphic environment, 84M/2232; *central Wales*, low-strain, chlorite-mica stacks in, 84M/3524; *Anglesey, Mona complex*, stratigraphy, subduction, faulting, review, 84M/1123; *Ireland, Connemara*, high-grade, fluid inclusion studies, 84M/1774; *USSR, Okhotsk massif*, min. compn., peculiarities, 84M/4492; *France, Brittany*, chloritoid-pyrophyllite-rectorite facies, 84M/2259; *Lorient-Concarneau area*, uni- and divariant equilibria in medium-*P* meta-acidities, 84M/1125; *Italy, Calabria, Maritime Alps, Ligurian* and *Lucanian Appenines*, low-grade, pumpellyite in, 84M/3132; *Spain, Tallante*, spinel + quartz in high-grade xenoliths, potential geothermometry/barometry use, 84M/1108; *India, Karnataka, Gurgunta schist belt*, geol., 84M/1135; *Japan, Hokkaido, Kamuikotan zone*, high- and low-*P*, tectonic mixing of, 84M/2270; *Wada* and *Oguchi Rivers*, petr., 84M/3002; *Taiwan, Tailuko Gorge*, min. paragenesis in, 84M/3550; *Namibia, Damara orogen*, calc-silicate assemblages, stability conditions, exptl. study 84M/3287; calc-silicate assemblage in originally marly rocks, stability conditions, exptl. study, 84M/3288; *Canada, Newfoundland, St. Anthony complex*, overlying deformed pillow lavas, 84M/3558; *USA, southern Adirondack Mtns.*, ribbon lineation in, origin, 84M/4338; *California, Sierra National Forest*, geol., field guide, 84M/4341; *Idaho, Idaho batholith*, geol. along northwest border zone, 84M/4518; *Wisconsin, Eau Claire River complex*, Precambrian mafic intrusion, 84M/4515; *Colombia, central Cordillera*, high-*P*, 84M/4522; *Antarctica, Alexander Island*, in Le May group, geol., 84M/4507; *Field Islands area*, geochron., evolution, 84M/3554; *Napier complex*, polymetamorphic, Pb isotope compn., colour, microstructure of monazites from, 84M/4080; *Shackleton Range, Haskard* and *Otter Highlands*, stratigraphy, structure, 84M/1147; *Shag Rocks*, geol., possible regional correlations, 84M/1145; *South Georgia, Cooper Bay-Wirik Bay area*, geol. observations, 84M/1144
—, temperatures, *Scotland, Strontian*, distrib. around granodiorite, 84M/1106
—, terrains, deciphering tectonic processes, new technique using *P-T* paths from garnet zoning, 84M/4484; *Japan, Hida*, metamorphic *T*, detn. by C isotope geothermometry, 84M/4500
—, zones, *India, Tamil Nadu, Bodinyakkanur area*, granulite facies transition zone, role of fluids in development, 84M/1137; *Japan, Shikoku, Bessi dist.*, oligoclase-biotite zone of Sanbagawa belt, 84M/4503; *USA, New Hampshire, Merrimack synclinorium*, in pelitic schists, 84M/1152
Metamorphism, fluid-absent, 84M/0624; planetary, implications from Ca-Al-rich inclusions in Allende meteorite, 84M/0738; low-grade effects in igneous rocks, Rb/Sr dating, method, 84M/1207; characterization through mineral equilibria, (book), 84M/1253; and melting of migmatites, symposium papers (book), 84M/1257; low-grade, use of illite/smectite interstratification parameter in estimating conditions, 84M/1273; stable isotope fractionation during devolatilization reactions, 84M/1770; buffering, infiltration, control of intensive variables during, 84M/1771; beneath obducted slabs, 84M/2088; ultra-, migmatites, melting and granitoid formation, 84M/2241; high-*P*, cause of amphibole exsolutions in hornblende, 84M/3146; heat transfer related to, exptl. study, 84M/3949; progressive of siliceous dolomites, equilibrium and mass transfer, 84M/3979; *Norway, Rogaland/Vest-Agder*, polyphase Caledonian in Precambrian basement, 84M/2254; *Sweden, Orust*, Sveconorwegian of dykes, Rb/Sr isotopic equilibrium during, 84M/3635; *Särv nappe, Ottfjället dolerites*, $^{40}Ar/^{39}Ar$ data, 84M/0008; *Greenland, Nordre Strømfjord area*, conditions of in granulite-facies amphibolites, 84M/1850; *Spitsbergen, Svalbard, Oscar II Land*, Caledonian, glaucophane schist petr., 84M/2253; *Scotland*, Highland Border suite, stable isotope study, 84M/0631; of Scourian complex, 84M/2257; *western Ireland*, devolatization during, role of quartz veins, 84M/0632; *Tieveragh*, pyrometamorphism and contamination of basaltic magma, 84M/3307; *USSR, Primor'e, Khankai massif*, retrogressive stage in, 84M/1132; *south east Tuva*, Precambrian Fe deposits, 84M/3541; *Germany, Rheinische Schiefergebirge*, migration, deduction

Metamorphism (*contd.*)
from K/Ar, Rb/Sr ages, 84M/3270; *Austria, Ötztal-Stubai complex*, Alpine, of dolerite dykes, 84M/4489; *Stubaier Alps*, of Permo-Mesozoic metasediments, 84M/3533; *Tauern window*, high-*P*, *P-T* paths from schists, 84M/4490; *Salzburg, Tennengebirge*, anchizonal, 84M/3529; *Alps, Gran Paradiso basement*, high-*P*, low-*T*, 84M/2261; *Pennine Alps, Gruf complex*, garnet-cordierite-sillimanite gneiss, metamorphic evolution, 84M/3534; *Italy, Apuane Alps*, pre-Alpine, chloritoid as probable indicator, 84M/1833; *Elba, M. Capanne*, polyphase, in granodiorite contact zone, 84M/1128; *Sardinia, Capo Spartivento*, of mica schists surrounding granite, 84M/2235; *Val d'Aosta, Bard*, during subduction and uplift, 84M/2260; *Spain, Arinteiro-Bama*, Cu deposit, 84M/3901; *Czechoslovakia, Strážovské Hory* and *Považsky Inovec Mtns.*, in crystalline complexes, 84M/1130; *Hungary, Bükkium*, very low- to low-grade Alpine of Palaeozoic, Mesozoic formations, 84M/3534; *Turkey, Çangal metaophiolite*, metamorphism conditions, 84M/3458; *Sivrihisar-Balçikhisar*, along palaeo-subduction zone, min., 84M/3539; *Pakistan, Kohistan sequence*, of obducted island arc, example, 84M/2265; *Himalayas*, 84M/2264; *Bhutan Himalaya*, 84M/0941; *Japan, Besshi* and *Hitachi Cu deposits*, of ores, studies of sulphide minerals in, 84M/3906, 84M/3907; *Hida terrain, Unazuki schists*, progressive, 84M/1139; *Shikoku, Nakatsu-Nanokawa dist.*, Sanbagawa type, 84M/4502; *Papua New Guinea, Wan area*, low-*P*, evidence for, 84M/4505; *New Zealand, D'Urville Island*, oceanic ridge metamorphism of volcanic rocks, 84M/4437; *Algeria, Ahaggar area, Pharusian chain*, stratigraphy, magmatism, place in progressive regional metamorphism of African Upper Precambrian, 84M/3543; *Namibia, Damara orogen*, development in intracontinental branch, overview, 84M/3276; *central* and *southern Damara orogen*, of siliceous dolomites, 84M/3286; *Damara orogen, northern branch*, metamorphic evolution, timing of, 84M/3284; *South Africa, Witwatersrand*, of pyrite, implications from fluid inclusions, morphology, tr. element content, 84M/0844; *western Canada* and *Australia, Mount Isa*, of pyrite, deformation and recrystallization, 84M/0845; *British Columbia, southern Kootenay arc*, Jurassic to mid Cretaceous, geochron., tectonic implications, 84M/4337; *Labrador*, northern margin of Grenville province, 84M/3557; *northern Labrador*, of Uivak gneisses, Sr diffusion during, 84M/0640; *Ontario, Chapleau-Foleyet area*, high-grade, 84M/2275; *Red Lake, Dickenson mine*, with alteration, mineralization, 84M/3914; *Quebec, south-central Abitibi belt*, evolution, geotectonic model, 84M/1999; *central Appalachian Mtns.*, features in massive sulphides, 84M/0849; *USA, California, Del Puerto*, submarine hydrothermal of ophiolite, 84M/4441; *Franciscan complex*, in high-grade blueschist exotic block, 84M/3561; *Vincent thrust*, Pelona schist, relation to thrust movement, 84M/4519; *New Hampshire, Hillsboro quadrangle*, bedrock geol., 84M/1151; *North Carolina, Anakeesta formation*, kyanite-staurolite, in sulphidic schists, 84M/3564; *Roan Mtn.*, granulite-facies gneisses, *P-T* conditions during, 84M/2363; *Antarctica, Enderby Land, Fyfe Hills*, early Archaean rocks, 84M/2357; *Pacific Ocean, East Pacific Rise, DSDP leg 65*, processes in sediments in contact with young oceanic crust, 84M/2150
—, burial *Canada, Quebec, southwestern Gaspé*, studies, 84M/2276; *USA, California, Great Valley sequence*, volcanogenic sediments, isotope geochem., 84M/2988
—, contact, *England, Devon* and *Cornwall*, Hercynian, in Devonian, Carboniferous metasediments, 84M/1124; *Portugal, Alijó-Sanfins area*, of phyllites by granites, geochem. of chlorite, biotite from, 84M/3159; *Japan, Honshu, Tono pluton*, low-grade metapelites in aureole, 84M/3507; *Canada, Newfoundland, Dunnage zone*, effects from Overflow Pond granite, 84M/2358
—, diagenetic, *Switzerland, Urirotstock, Vierwaldstätter See*, in sediments, new data, 84M/1126
—, organic, geol. time as parameter, vitrinite reflectance as absolute palaeogeothermometer, 84M/1107
—, regional, O-isotope equilibration, permeability enhancement during, 84M/0625; regularity of structural successions of regional complexes, 84M/1116; role of fluid phase during, 84M/2252; *England, Devon* and *Cornwall*, Hercynian, in Devonian, Carboniferous metasediments, 84M/1124; *Cornwall, Perranporth-Pentewan line*, low-grade. 84M/3525; *Scotland, south west Highlands*, greenschist/epidote-amphibolite facies, genesis, mobility of H_2O–CO_2 fluid phase during, 84M/0630; *Switzerland, Urirotstock, Vierwaldstätter See*, Alpine, in sediments, new data, 84M/1126; *Japan, Shikoku, Sazare mining dist.*, of sulphide ores and surrounding rocks, opaque min. assemblages, fluid compns., 84M/1140; *Namibia, Damara orogen*, crustal radioactivity and motion as causes, 84M/3289; loss of metals from pelites during, 84M/4152; *central* and *southern Appalachian Mtns.*, age of, 84M/1220; *USA, Alaska, Seward Peninsula*, regional progressive high-*P*, 84M/4508; *Maine, Vassalboro formation*, 84M/1150
—, shock, *USSR, Ukraine, Il'inets astrobleme*, albitization of maskelynite in rocks, 84M/1817
—, thermal, *Italy, Latium, Mt. Cimino*, inclusions in lavas, petrography, chem., 84M/2234
Metaophiolite, *Turkey, Çangal*, min., petr., metamorphism conditions, 84M/3458; *v.* also ophiolite
Metapelites, applications of cordierite-garnet-sillimanite-quartz equilibrium in geothermometry/barometry, 84M/2642; *USSR, Karategin Range* and *south western Pamirs*, high *T*, min. equilibria in, 84M/3542; *Spain, Nevado-Filábride complex*, coexisting muscovite, paragonite in, 84M/3152; *Japan, Honshu, Tono pluton*, low-grade in contact aureole, 84M/3507; *Namibia, southern Damora orogen*, from low- to medium-grade metamorphic reactions, min. compn. variations in, 84M/3285
Metarodingite, *Austria, Hohe Tauern, Habach formation*, geochem., petr., 84M/4476
Metasedimentary belts, *Canada, Superior Prov., Quetico*, structural history, 84M/4513
—, rocks, *south west Greenland*, Archaean, geochem., 84M/4150; *Austria, Stubaier Alps*, Pemo-Mesozoic, petr., metamorphism, 84M/3533; *Italy, Calabria, Serre*, granulite-amphibolite facies, protoliths, processes controlling chem., 84M/0634; *north west India*, enclaves from Archaean gneiss complex, min. parageneses, metamorphic reactions, 84M/3546; *USA, Montana, Beartooth Mtns., Broadwater River area*, xenoliths in granitic gneisses, min., petr., 84M/2003
Metasiltstone, *England, Cornwall, Gerrans Bay*, $^{40}Ar/^{39}Ar$ age spectrum, 84M/3642
Metasomatic processes, formation of euhedral crystals in, possible mechanism, 84M/1550
—, zoning, infiltration type, formation of sharp fronts in, 84M/3968
Metasomatism, in Earth's mantle, 84M/0509; effects in meta-igneous rock series, statistical evaluation, 84M/0615; diffusional, quasi steady-state model of, 84M/1112; alkaline, geochem. of, 84M/1768; reaction zones, evidence for deep crustal carbonates as CO_2 fluid sources, 84M/2231; *west Greenland*, controlling K/Rb ratios in amphibolites, 84M/1767; *Fiskenæsset*, zoned ultramafic pod, *RE* element distrib., 84M/1714; *USSR, Kola Penin. East Sayan* and *Ukraine*, magnesian in early carbonatites, 84M/1111; *France Rhon, Sibert porphyry deposit*, phyllic alteration superimposed on potassic alteration, petr., 84M/3498; *Carpathians, Malé Karpaty*, altered rocks, geochem., 84M/0566; *Greece*, of ophiolite plagioclases during spilitization, 84M/2099; *China, Liaoning Prov., Lianshanguan area*, migmatitic, relation to U mineralization, 84M/1477; *Western Australia, Golden Grove Cu-Zn deposit*, effects in intrusive/extrusive rocks, 84M/1498; *Kenya, Kisingiri*, of fenites, role of speciation in alkaline igneous fluids during, 84M/0620; *East Africa, Virunga*, possible origin for K-rich volcanic rocks, isotope evidence, 84M/2887; *South Africa, Bultfontein*, in xenoliths, tr. element and isotopic studies, 84M/1659; *Jagersfontein*, in upper mantle, implications from new titanates in kimberlite, 84M/2821; *Kimberley*, mantle, dunite example, 84M/4380; *Mexico, Baja California, Cerro Prieto geothermal system*, active, telescoped low-*P*, *T* metamorphic facies series, 84M/3510
Metasomatites, apobasic alkali metal bearing, F distrib. patterns in, 84M/2995
Metastibnite, *Italy, Tuscany, Cetine mine*, probable occurrence, 84M/4568
Meta-uranocircite, crystal structure, 84M/3853
Metavolcanic rocks, *Norway, Finnmark, Karasjok greenstone belt.*, prelim. study, 84M/4485; *north west Germany*, from Rhenohercynian belt, chem. compn., genetic relations, 84M/3266; *Hungary, south Transdanubia*, in crystalline complexes, origin, 84M/3536; *Turkey, Avnik area*, metamorphic feldspathization of, 84M/2263; *India, Karnataka*, Archaean, petrogenesis, setting

Metavolcanic rocks (*contd.*)
84M/0637; *Egypt, Qena-Quseir area, RE* elements in, 84M/4110; *Canada, Quebec, Rouyn-Noranda dist.*, Archaean mafic, mobility of major elements, discussion, 84M/4126; *USA, California, Merced Peak quadrangle*, anal., data, 84M/0592
Metavoltine, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Metazoa, emergence in early history of life, 84M/2339
Mcguinnessite, *New Zealand, Nelson, Champion mine*, new occurrence, props., 84M/4278
Meteorites,

Adhi Kot EH4, 84M/1814
Aleksandrovsky Khutor, 84M/0744
ALHA 77215, A77216, 77217, 77252, 78105, 84M/3095
Allan Hills, 84M/4198
—, A77005, 84M/4197
—, A78113, 84M/3104
—, A78132, 84M/4196
Allende, 84M/0735, 84M/0738, 84M/0745, 84M/0746, 84M/0747, 84M/3098, 84M/3099; 84M/4200
Angra dos Reis, 84M/4194
Barwell, 84M/0745
Bhola, 84M/0737
Bilibino, 84M/0751
Bleckenstad, 84M/0739
Blithfield, 84M/4195
Bruderheim, 84M/0751, 84M/4198
Cañon Diablo, 84M/0745
Cape York, 84M/3113
Chassigny, 84M/0734
Cumberland Falls, 84M/3104
Dhajala, 84M/3093
Dongling, 84M/3111
Eagle Station, 84M/0734, 84M/0746
Elenkova, 84M/0744
Elephant Moraine A79001, 84M/3094
Enon, 84M/0734
Estacado, 84M/4198
Geidam, 84M/3089
Grant, 84M/3113
Guanghua, 84M/3111
Hallingeberg, 84M/3093
Huangling, 84M/3111
Hvittis, 84M/4199
Isna, 84M/1816
Jilin, 84M/4196
Juvinas, 84M/4196
Krähenberg (Krbg), 84M/0737
Leshan, 84M/3111
Longchang, 84M/3111
Lunan, 84M/4202
Marjalahti, 84M/3109
Mianchi, 84M/3097
Mighei, 84M/4203
Moama, 84M/4194
Mokoia, 84M/3104
Murchison, 84M/0735, 84M/3099, 84M/3100–3102, 84M/4204 4205
Murray, 84M/1815
Nantan, 84M/3111
Orgueil, 84M/1815, 84M/4206
Pasamonte, 84M/4196
Qingzhen, 84M/3106
Richardton, 84M/0752
Saint Severin, 84M/0751, 84M/3091
Salta, 84M/4199
Saratov, 84M/0744
Semarkona, 84M/0736, 84M/3093
Severnyi Kolchim, 84M/0750
Sinai, 84M/4191
Utzenstorf, 84M/0742
Xi Ujumqin, 84M/3097
Yamato 7304, 84M/4198
—, 74191, 84M/0741, 84M/0748
Yungning, 84M/3111
Zaboritsa, 84M/0744
Zaisho, 84M/3108

—, refractory inclusions in Murchison, 84M/0735; replacement textures in Allende Ca-Al-rich inclusions, implications for planetary metamorphism, 84M/0738; chondrules and chondrite mineral grains, surface sculpture, 84M/0744; Ni-isotopes in Allende and others, 84M/0747; deep-sea iron/stony spherules, ^{53}Mn content, 84M/0749; Bilibino, anal., min., 84M/0751; evidence for origin of Earth and life, (book), 84M/1261; *RE* element chem., 84M/2805; solar cosmic ray produced radionuclides in, erratum, 84M/3088; gas-rich chondrite regolith breccias, lithification, 84M/3092; Mg content in Allende inclusions, use of modified ion microprobe, 84M/3098; isotopically anomalous N in primitive, 84M/3099; optical activity of amino acids in Murchison, comment, 84M/3101; reply, 84M/3102; ^{129}I measurement by tandem accelerator mass spectrometry, 84M/3114; early differentiation, relevance of melt immiscibility in, 84M/3950; ^{138}Ce/^{142}Ce ratio and its evolution, 84M/4196; ^{14}C content, tandem accelerator mass spectrometry measurements, 84M/4198; 'fluffy' type A inclusions in Allende, 84M/4200
—, achondrites, petrogenesis of Elephant Moraine, multiple magma pulses on shergottite parent, 84M/3094; Sm/Nd isotopic evolution, 84M/4194; Fe^{3+} in shocked olivine crystals of Allan Hills A77005, 84M/4197
—, age determination, Eagle Station and Enon, I/Xe and ^{40}Ar/^{39}Ar studies, 84M/0734; Utzenstorf, new data, 84M/0742; ^{244}Pu chronology, implications from *RE* elements in chondritic phosphates, 84M/3107; Marjalahti, fission track age, 84M/3109; *Antarctica*, anomalously old ^{40}Ar/^{39}Ar ages, 84M/3096
—, calcarite, Bleckenstad, pseudometeorite, proof, 84M/0739
—, chondrites, separation of metal fractions, use of rotating magnetic field, 84M/0063; chondrules in Semarkona, refractory precursor components, refractory element fractionation, 84M/0736; alkali differentiation in LL-type, 84M/0737; chem. characteristics, origin of H-type regolith breccias, 84M/0740; Utzenstorf, new data, age, 84M/0742; U-Th-Pb in, evidence of elemental mobilities and primordial Pb singularity, 84M/0745; Ni-isotope studies in C1, C3, L, LL, H, E, 84M/0746; cooling history of pyroxene chondrules in Yamato 74191, EM study, 84M/0748; min., petr., chem. compn. of Severnyi Kolchim, 84M/0750; *RE* elements in phosphate separates from Saint Severin, Bruderheim, Richardton, implications, 84M/0752; origin of chondrules, silica-rich clasts, implications from Adhi Kot breccia, 84M/1814; isotopic compn. of kerogen in, evidence for interstellar origin of meteoritic organic matter, 84M/1815; elemental, isotopic compn. of noble gases, concentration of cosmic ^{10}B, ^{26}Al, ^{53}Mn ^{60}Co in Isna, 84M/1816; Geidam, compn., 84M/3089; O-isotope heterogeneities, petr. correlations, implications for chondrule melt origins, 84M/3093; Xi Ujumquin and Mianchi, prelim. studies, 84M/3097; generation of oriented texture in, possible mechanism, 84M/3100; Fe-Ni-S-O layer phase in C2M carbonaceous, 84M/3103; Cumberland Falls inclusions, tr. element contents of forsterite chondrites, 84M/3104; chondrules and inclusions, min., petr., 84M/3105; relict grains in chondrules of Qingzhen, evidence, 84M/3106; *RE* elements in chondritic phosphates, implications for ^{244}Pu chronology, 84M/3107; discontinuous precipitation from kamacite in Sinai, first such occurrence, 84M/4191; phys. props. of ordinary, 84M/4192; Ca-Al-rich chondrules, inclusions in ordinary, 84M/4193; Sm/Nd isotopic evolution, 84M/4194; sulphide-rich, metal-poor clasts/inclusions in brecciated enstatite chondrites, 84M/4195; ^{138}Ce/^{142}Ce ratio in Jilin, 84M/4196; intrinsic f_{O_2} measurements, redox state of parent bodies, 84M/4199; Lunan, compn., 84M/4202; new layered Fe-Ni-Si-O mineral in Mighei, 84M/4203; low mol. wt. hydrocarbons/monocarboxylic acids from Murchison, C isotope compn., 84M/4204; O isotope record in Murchison, 84M/4205; Sr isotopes in Orgueil, evidence for early Solar System aqueous activity, 84M/4206; *Sweden, Brunflo, Rödbrottet quarry*, general description, primary minerals, 84M/4201; *Antarctica*, cosmogenic records in, 84M/3095
—, craters, *USSR, Ukraine, Il'inets astrobleme*, albitization of maskelynite in shock-metamorphosed rocks, 84M/1817; *India, Lunar crater*, endogenic or meteoritic origin, comment on previous paper, 84M/1821; *Canada, Devon Island, Haughton structure*, structural, morphological aspects, 84M/1820
—, eucrites, Al-Sm-Eu-Sr systematics, implications for planetary bulk compns., 84M/3072; ^{138}Ce/^{142}Ce ratios in Juvinas, Pasamonte, Allan Hills A78132, 84M/4196
—, falls, *China*, frequence, geog. distrib., 84M/1818
—, impacts, *Spain, Caravaca*, evidence from Cretaceous-Tertiary boundary sediments isotopic study, 84M/3115; *Spain, Italy, central Pacific Ocean*, spherules at Cretaceous-Tertiary boundary, result of extraterrestrial impact, 84M/1819
—, irons, N, Xe in acid residues, 84M/0733; Ni-isotope studies in IVB, 84M/0746; O-isotope relations, 84M/3110; tr. element fractionation in, influence of S, exptl. study, 84M/3112; Ag-, Pb-isotopic compns. in Cape York, Grant, 84M/3113; *China*, compn. classification, 84M/3111
—, isotopes, ^{21}Ne production rate in stony, estimate from ^{10}Be and others, 84M/3090; ^{187}Re-^{187}Os systematics, cosmochem. consequences, 84M/3091
—, minerals, clinoenstatite from Yamato 74191 and a boninite, EM study, 84M/0741; pyroxene chondrules in Yamato 74191, cooling history, EM study, 84M/0748; preferred orientation of phyllosilicate in Murchison matrix, 84M/3100; Fe-Ni-S-O layer phase in C2M carbonaceous chondrites, 84M/3103; phosphates, *RE* elements in, 84M/3107; new layered Fe-Ni-Si-O mineral in Mighei, 84M/4203
—, pallasites, Ni-isotopes in Eagle Station, study, 84M/0746; pyroxene and phosphoran olivine in Zaisho, 84M/3108; fission track age, cooling rate of Marjalahti, 84M/3109; intrinsic f_{O_2} measurements, redox state of parent bodies, 84M/4199
—, stony, pore spaces in, morphology, origin, 84M/0754; ^{21}Ne production rate, estimate from ^{10}Be and other radionuclides, 84M/3090
—, ureilites, nature and origin, comment on previous paper, 84M/0732
MEXICO, tectono-statigraphic terrains and min. resource distribs., 84M/0218; porphyry Cu deposits, geochron., 84M/0219; buergerite, replacement of OH ions, Si-O tetrahedra by BO_3 groups, 84M/2513; *north*, rhyolites assoc. with Sn mineralization, petr., geochem., 84M/3862; *continental margins*, apatite, present day formation in sediments, 84M/0612; *Baja California, Cerro Prieto geothermal system*, active metasomatism, telescoped low-*P*, *T* metamorphic facies series, 84M/3510; *Laguna Figueroa*, modern distinctive microbial structures, implications for pre-Phanerozoic fossil record, 84M/2229; microbial community, fine structure, *in situ* study methods, 84M/2230; *Lucifer Mn deposit*, geol. setting, origin, 84M/1508; *San Felipe*

MEXICO (*contd.*)
area, heavy metal mobility, distrib. during red bed formation, 84M/4146; *Chiapas, El Chichon volcano*, geol., 84M/4421; *Chihuahua, Naica*, gypsum crystals, description, 84M/4613; *San Antonio mine*, ludlamite crystals to 3″, 84M/2330; botryoidal yellow smithsonite, description, 84M/4613; *Santa Eulalia dist.*, gypsum crystals >10′ long in cavern, 84M/2330; *Durango, Mapimi, Ojuela mine*, lotharmeyerite, new mineral, props., 84M/1935; lotharmeyerite, description, 84M/2316; scorodite crystals to ½″, description 84M/4613; *Guanajuato, Mine de San Juan de Rayas*, acanthite crystals to 1″, description, 84M/4613; *Los Humeros caldera*, magma genesis, chamber processes, Nd, Sr-isotope data, 84M/2952; *Nayarit, Sanganguey volcano area*, Pleistocene to recent alkalic volcanism, 84M/4420; *Oaxaca*, Precambrian evaporites in granulite complex, evidence, 84M/4343; *Puebla, Los Humeros caldera*, alkali, alkaline earth geochem., 84M/4130; *Querétaro*, opal, occurrence, inclusions, 84M/0489; *San Luis Potosi, Guadalcazar granite*, fluid inclusions in quartz, high Ag content, 84M/0534; *Zacatecas, Fresnillo, Santo Niño vein*, pyrargyrite crystals, to 2¾″, description, 84M/4613
Miargyrite, *Czechoslovakia, Třebsko deposit*, with andorite, fizelyite in ores, anals., 84M/0856
Mica, Ostwald ripening in soln., kinetics, 84M/0375; hydraulic equivalence, comparison with clay, 84M/1060; contamination in aqueous fluid inclusions, effect on anal. by decrepitation–ICP method, 84M/1248; dioctahedral, transformation to mica/smectite, factorial anal., 84M/1276; dioctahedral, X-ray basal reflection intensities, chem. compns., triangular diags., 84M/1280; orientations of OH-bonds, comparison of diffraction methods, electrostatic calculations, 84M/1304; orientation of OH-vectors, factors affecting, 84M/1369; regularly interstratified with montmorillonite, synthesis formation mechanism, 84M/1623; synthetic trioctahedral, Li in interlayer space, 84M/1624; tr. element distrib., criterion for assessing rare-metal pegmatites, 84M/1665; in paint films, quantitative XRD anal., 84M/2386; potassic, IR OH-stretch bands in, influences of electronic configuration, site of charge compensation, 84M/2520; synthetic and natural F-bearing, thermal transformations, 84M/2734; natural and synthetic F-bearing, thermal changes on morphology, 84M/2737; tetrasilicic K-fluor-mica, mechanism of thermal transformation, 84M/2738; dioctahedral of Au ore deposits, typomorphism, 84M/3150; Li-free and bearing, ident. by optical 2nd harmonic generation technique, 84M/3809; acentric lithia, structure clarification using laser radiation, 84M/3810; influences of surface on pore-water pH, 84M/4026; polytype $2M_1$ of trioctahedral, revised X-ray powder diffraction data, 84M/4235; *Greenland, Motzfeldt centre*, from nepheline-syenites, microprobe anals., 84M/1841; *Japan, Ehime Pref., Tobe*, NH_4-bearing, characteristic features, 84M/1279
—, biotite, vermiculitization with oxidation, results, 84M/0468; high-resolution TEM study, 84M/0775; nomenclature for minor substitutions, proposals, 84M/0778; interlayering, interlayer slip, high-resolution TEM study, 84M/1371; use of ashes to cure TB, 84M/1527; sorption of U, Ra, 84M/3746; *west Greenland*, Ti, Al, interlayer cation substitutions in, 84M/3155; *north Finland*, from granites, major element geochem., origin, metallogenetical aspects, 84M/3157; *USSR*, Cs-, from microcline-albite pegmatites, props., potential Cs source, 84M/1852; *Ukrainian Shield*, coexisting with amphiboles, relationship between Fe content, H-isotope compn., 84M/0522; *Spain, Sistema Central area*, in granitic rocks, relationship between chem. compn. and magmatic differentiation processes, 84M/3154; *Portugal, Alijó-Sanfins area*, from phyllites metamorphosed by granites, geochem., 84M/3159; *Austria, Kamp Valley*, from 'biotite schist', anals., 84M/3158; *Italy, Adamello massif*, from dioritic to granodioritic rocks, crystal chem., 84M/1851; *Bulgaria, Burgas dist.*, from pegmatites, comparison with phlogopite from Cu-Mo ore veins, 84M/0791; *India, Bihar, Pokharia mine*, fission track annealing expts., 84M/4234; *USA, south central Maine*, altered to chlorite, TEM study, comparison with petr. observations, 84M/3160; *north east Minnesota*, from pelitic hornfelses, anal. of compn. variations, 84M/3156; *Nevada, Toana Range*, coexisting with muscovite in granite, markedly discordant K/Ar ages, 84M/1222; *Vermont, Post Pond series*, intergrown with wonesite, chlorite, talc, kaolinite, microstruct., 84M/0172
—, ephesite, first synthesis, thermal stability, standard state thermodynamic props., 84M/2751; stability, compatability relations, thermodynamic anal. and geol. occurrences, 84M/2751
—, fuchsite, *West Carpathians, Spišsko-Gemerské rudohorie Mtns.*, significance in evolution of mineralization, 84M/0795; *India, Kerala*, in quartzite, 84M/4496
—, germanate-, structure variation with octahedral cation substitution, 84M/1356; equivalent of manganoan fluorphlogopite, synthesis, 84M/1621
—, illite, fibrous sedimentary cement, SEM study, 84M/1057; interstratified with smectite, XRD detn. of interstratification parameters, use in estimating low-grade metamorphic conditions, 84M/1273; interstratified with montmorillonite, component layers, 84M/1274; ideal mixing of atoms on homological sites, chem., thermodynamic consequences, 84M/1283
—, lepidolite, struct., chem., oblique-texture electron diffraction study, 84M/0171
—, margarite, *Japan, Shikoku, Iratsu mass*, in metagabbro, 84M/3166
—, masutomilite, *Czechoslovakia, Ctidružice*, in Li-pegmatites, 84M/3162
—, muscovite, bacterial breakdown, 84M/0361; with quartz, stability, 84M/0467; application of pattern fitting structure refinement, 84M/1370; sorption of U, Ra, 84M/3746; carved, description, 84M/4057; *France, Massif Central, Millevaches*, successive generations in leucogranites, 84M/4228; *Spain, Nevado–Filábride complex*, coexisting with paragonite in metapelites, 84M/3152; *Sistema Centra area*, in granitic rocks, relationship between chem. compn. and magmatic differentiation processes, 84M/3154; *Japan, Sanbagawa*, coexisting 3T, $2M_1$ in schists, 84M/3151; *Shikoku, Kurosegawa tectonic zone*, from greenstone, K/Ar age, 84M/0028; *USA, Nevada, Toana Range*, coexisting with biotite in granite, markedly discordant K/Ar ages, 84M/1222; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *north west Utah*, metamorphic, from Precambrian quartzite, miocene K/Ar age, 84M/1225; *Virginia, Herbb no. 2 pegmatite*, occurrence, 84M/1636; *south east Peru*, phenocrysts in ash-flow tuffs, 84M/2954
—, paragonite, under pressure of H_2O, CO_2, stability, 84M/0467; $2M_1$, crystal structure, 84M/3806; *Spain, Nevado-Filábride complex*, coexisting with muscovite in metapelites, 84M/3152; *USA, New Mexico*, coexisting with quartz in sillimanitic rocks, 84M/4230
—, phengite, di-trioctahedral Li, Fe-, crystal structure, electron diffraction study, 84M/3808; *Italy, Alps, Sesia-Lanzo zone*, micas of successive foliations, chem. variations, 84M/3153
—, phlogopite, platy from blast-furnace slags, chem. differences from natural, 84M/1620; manganoan fluor-, and germanate equivalents, synthesis, 84M/1621; new synthetic fluorphlogopite as standard XRD reference powder, 84M/2374; F-bearing, thermal changes on lattice constants, 84M/2735; sorption of U, Ra, 84M/3746; *Sweden*, Mn-bearing, Fe^{3+}-Mn^{2+} pair adsorption as cause of reverse pleochroism, opt., Mössbauer studies, 84M/1849; *Bulgaria, Burgas dist.*, from Cu-Mo ore veins, comparison with pegmatitic biotite, 84M/0791; *Rosen Co-Mo deposit*, colour zoned, cause, 84M/0792; *South Africa, Palabora mine*, ferri-, assoc. with carbonatite, props., 84M/4231; *Canada, New Brunswick, Shaw's Cove*, titanian, from minette, comparisons with other micas, 84M/4232; *USA, Pennsylvania, Fayette Co. kimberlite*, mid- to late-stage kimberlite melt evolution, evidence, 84M/4233
—, polylithionite, struct., chem., oblique-texture electron diffraction study, 84M/0171
—, sericite, *Germany, Saarland*, authigenic fibrous whiskers growing into detrital quartz, 84M/1073; *USA, Utah* and *New Mexico*, hydrothermal, geochem., 84M/4229
—, taeniolite, synthetic F-bearing Na-, Li-taeniolite, preparations, applications, 84M/2736; *USA, California, Coyote Peak*, occurrence, props., 84M/1853
—, tetraferribiotite, *USSR, Ukrainian Shield*, cryst. struct., 84M/0170
—, tetraferriphlogopite, *USSR, Ukrainian Shield*, cryst. struct., 84M/0170
—, tobelite, *Japan, Ehime Pref., Tobe*, new mica mineral, 84M/4289
—, white, *central Wales*, stacks with chlorite in low-strain rocks, 84M/3524; *central*

Mica, white (*contd.*)
Alps, K-mica polymorphs, regional distrib., phengite content, 84M/1848
—, wonesite, *USA*, *Vermont*, *Post Pond series*, intergrown with chlorite, talc, biotite, kaolinite, microstruct., 84M/0172; exsolution, crystal chem., 84M/0793
—, zinnwaldite, protolithionite, struct., chem., oblique-texture electron diffraction study, 84M/0171; in Moldanubian Li-pegmatites, new discovery, 84M/0794
Microgranite, *Scotland*, *Ailsa Craig*, tr. element reference material, proposal for adoption, 84M/0708
Microcline *v.* feldspar
Microlite, containing ~4% Sb_2O_3, anal., 84M/1937; *England*, *Devon*, *Meldon*, occurrence in aplite, microprobe anal., 84M/4254; *USA*, *Maine*, occurrences, brief descriptions, 84M/2315
Microtoming, use of epoxy rock replicas, 84M/0051
Migmatites, melting and metamorphism, symposium papers (book), 84M/1257; ultrametamorphism, melting and granitoid formation, 84M/2241; terrains, structural anal. problems, 84M/2249; *Sweden*, *Arvika* and *Norway*, *Nelaug*, layered, origin, 84M/2247; *south Finland*, polyphase deformed in Svecokarelides, U/Pb, Rb/Sr studies, 84M/1769; *Scotland*, metamorphic and anatectic, contrasting textures in Caledonide example, 84M/2240; *France*, *Brittany*, *Presqu'ile de Rhuys*, petrogenesis, 84M/2245; *Austria*, *Tyrol*, *Zillertal Alps*, *Berliner Hütte*, petr., age detn., 84M/3648; *India*, *Bihar*, *Panchet dam area*, anatectic, petr., geochem., 84M/4493; *China*, *Liaoning Prov.*, *Lianshanguan area*, metasomatism of, relation to U mineralization, 84M/1477; *Canada*, *British Columbia*, *Central Gneiss complex*, formation, anatexis, 84M/2243; *USA*, *Colorado*, *Front Range*, local mass balance in, quantitative approach, 84M/2246; open-, closed-system, 84M/2278; mass balance, mass transfer in, 84M/3560; *USA*, *Central Massachusetts*, Acadian in pelitic rocks, 84M/2244
Milarite, faceted gemstone, brief details, 84M/0500; *USA*, *New Hampshire*, *Government Pit*, occurrence, brief description, 84M/2315
Millerite, reflected light study, 84M/3566; dispersion in air, oil, 84M/3567; *England*, *Staffordshire*, *Ecton Hill*, occurrence, 84M/2289; *Bulgaria*, *Sv. Marina*, from polymetallic ore deposit, 84M/1487; *USA*, *southeast Missouri*, replaced by pecoraite, 84M/3170
Mimetite, *USA*, *Arizona*, *Glove mine*, occurrence, 84M/4609
Mineral, concept of, discussion, 84M/1186
—, deformation, biotite, interlayer slip in tectonically deformed high-resolution TEM study, 84M/1371; calcite, texture development in experimentally induced ductile shear zones, 84M/1598; pyrite, 84M/4538; *Australia*, *Tasmania*, *Mt. Lyell*, chalcopyrite in fault zones, deformation microfabric development, 84M/4504; *western Canada* and *Australia*, *Mount Isa*, pyrite, deformation and recrystallization during metamorphism, 84M/0845
—, deposits, origin, prediction, exploration, assessment of, use of crystallomorphic research, 84M/0211; stratabound deposits, 84M/0212; *v.* also ore deposits
—, equilibria, characterization of metamorphism by, (book), 84M/1253; cordierite-garnet-sillimanite-quartz, expts., application, 84M/2642; exchange equilibria in system cordierite-garnet-biotite, exptl. study, 84M/2643; C-O-H-S at constant bulk compn. petrological implications, 84M/3956
—, exploration, biological methods (book), 84M/0078; genetic concepts *vs.* observational data, 84M/0221; available alumina in bauxite, calculation during exploration, 84M/0229; remote sensing for, overview, 84M/0238; use of geophys. methods, 84M/0247; geochem. detn. of U in natural waters, fission track method for, 84M/0665; geochem. recognition of true/false anomalies, efficacy of chem. extractions, 84M/0666; airborne biogeophysical technique, lab. confirmation, 84M/0667; airborne biogeophysical mapping of hidden deposits, 84M/0668; drilling techniques in, 84M/1410; down-hole pulse electromagnetic surveys, application, example, 84M/1411; simultaneous detn. of 36 elements by XRF, use, 84M/2403; application of seismic tomography, 84M/2559; electromagnetic methods, mathematical modelling in, 84M/4545; resonance effects in complex resistivity data, significance, 84M/4547; *Norway*, *Sæteråsen*, geochem. for Nb, *RE* elements, 84M/1807; *United Kingdom*, applications of transient electromagnetic prospecting, 84M/1412; *south west England*, potential use of fluid inclusions in granites, 84M/1808; *Ireland*, progress and developments, 1971–1981, (book), 84M/1258; employment, expenditure 1971–81, 84M/1439; significance of mineralization in ORS, 84M/1441; changing face of, Emmel Castle case history, 84M/1444; current geophys. techniques, review, 84M/1449; geochem. techniques, review, 84M/1450; *Co. Limerick*, *Carricklittle prospect*, 84M/1445; *Co. Mayo*, *Charlestown area*, new deposit in Ordovician volcanic sequence, discovery, 84M/1448; *Irish Republic*, reconnaissance radiometric survey, 84M/3035; *Belgium*, U in Palaeozoic rocks, reconnaissance survey, 84M/1805; *Italy*, *southern Tuscany*, for Sb deposits, 84M/1811; *Portugal*, geochem., min. surveys for W, Sn, 84M/3037; *Mondiru de Basto area*, geol., geochem. prospecting, 84M/3036; *Cyprus*, application of induced polarization, 84M/3038; *Troodos complex*, induced polarization method, applicability to sulphide mineralization search, 84M/2077; *United Arab Emirates*, *Madhab*, *Murbah*, and *Wadi Ham*, ground geophys. prospecting, notes on Cu exploration, 84M/3041; *India*, *Orissa*, *Sargipalli*, computer-assisted trend surface mapping, 84M/1806; *Australia*, *NSW* and *Victoria*, possible direct hydrogeochem. Au prospecting, use of Au in goldfield surface waters, 84M/3043; *South Australia*, application of groundwater hydrogeochem., 84M/3042; *Egypt*, *Hamash area*, geochem., for Cu, 84M/3039; *Tanzania*, integrated interpretation of aeromagnetic, radiometric maps, 84M/1430; *Canada*, *Gaspé*, application of illite crystallinity, organic matter reflectance, isotopic techniques, 84M/2556; *USA*, *Arizona*, *Helvetia*, *Safford* and *Silver Bell*, remote sensing for porphyry Cu deposits, 84M/0277; *Oatman mining dist.*, mapping alteration mineralogy, use of high-resolution IR spectroradiometry, 84M/0239; *Colorado*, *Western Pass area*, use of Skylab photography, 84M/0240; *North Carolina*, *Pilot Mtn.*, metal anomalies, remote defection, 84M/0673; *Virginia*, *Mineral*, geobotanical search for metal sulphides, application of remote sensing, field results, 84M/0669; *Wyoming*, *S Powder River Basin*, roll-front U mineralization, use of airborne multispectral scanner to map related sandstone alteration, 84M/0241
—, fakes *v.* mineral specimens
—, habit *v.* crystal habit
—, hardness, calculation from indentation diag. with undefined moment of contact, method, 84M/0062
—, inclusions, advances in study of, 84M/2368
—, properties, invariance in space, remote identification, 84M/3081
—, prospecting *v.* mineral, exploration
—, reactions, kinetics and equilibrium in (book), 84M/2454
—, resources, assessment, outline of, 84M/3873; *Finland*, *central Lapland*, evolution of potential, statistical anal. of geol., geochem., geophys. data, 84M/3874; of *India* (book), 84M/0083
—, separations, use of rotating magnetic field, 84M/0063
—, species, and variety of, concepts of, discussion, 84M/1186; glossary, additions and corrections (book), 84M/3694
—, specimens, development using reagents, methods, 84M/1228; *Italy*, *Sardinia*, *Monteponi*, fake specimens, 84M/3604
—, statistics, *World*, production, exports, imports (book), 84M/3701; *United Kingdom*, 1982, 84M/0208; production, consumption, import for 1983, (book), 84M/2459
—, waters *v.* water, mineral
Mineralized zones, use of IR remote sensing to delineate, 84M/0243
Mineralogical guides, *France*, *western Ariège*, 84M/3596
Mineralogy, regional, fundamental problems, objectives, 84M/1171; basic concepts, 84M/1186; concepts, descriptions, determinations, (book), 84M/1259; use of X-ray photoelectron spectra, mesolite example, 84M/1867
Minerals, of the World (wall-chart), 84M/0085; strategic, World Index (book), 84M/0090; strategic, critical research need, 84M/0209; accessory in rocks, genetic significance, 84M/0903; sedimentary, neoformation, etching, SEM study, 84M/1057; reliability in anal., 84M/2410; terrestrial, variations of Os/Ir ratio, 84M/2822; refractive props., effects of electron shell ion configurations on, 84M/3572; electric fields of, interaction with liquid crystals, 84M/3680; *India*, used in medicine, 84M/1527; *Indian Ocean*, *Marie Celeste fracture zone*, rock forming, in gabbros, 84M/1049
—, new *v.* new minerals

Mine tailings, *Canada*, *Vancouver Island*, *Rupert mine*, marine dump, interstitial water metabolic chem. in, 84M/3946
Minettes, *Canada*, *New Brunswick*, *Shaws Cove*, Ti-phlogopite from, comparisons with other micas, 84M/4232
Mining, and the environment, literature review, 84M/1514
Minium, *Spain*, *Badajoz*, *Santa Marta*, thermal behaviour, 84M/3201
Miocene rocks, *Italy*, *Sicily*, carbonate sediments, petr., palaeoenvironment, evidence for periodic emergence, 84M/1078; zeolites assoc. with montmorillonite, silica phases, origin, 84M/1079; *Iraq*, Euphrates and Jeribe formations, petr., min. of selected parts, 84M/1090; Lower Bakhtiari formation, petr., min., 84M/1091
Mirabilite, *Italy*, *Tuscany*, *Cetine Mine*, occurrence, 84M/4568; *Spain*, in efflorescences in a Typic Salorthid, 84M/0866; *Laguna de Tirez*, in playa lake sequence, 84M/1074; *USA*, *Arizona*, *Camp Verde*, occurrence, 84M/2322
Moinian rocks, *Scotland*, age, lithology, 84M/0909; *northern Highlands*, chem. correlation, 84M/0629; Loch Quoich line, limit of early Palaeozoic crustal reworking, 84M/1986; *eastern Ardgour*, statigraphy, structure, 84M/1987; *Ardnish*, Precambrian pegmatite, structural dating relevance to status of 'Morarian orogeny', 84M/1121; *Glen Garry region*, early curvilinear fold structures, strain in, 84M/3305
Moissanite, *Bulgaria*, *Pernik* and *Kjustendil dists.*, from bituminous rocks, 84M/0823
Molasse, *Switzerland*, *Langete basin*, petr., lithostratigraphy, 84M/1080
Molluscs, *Israel*, *Ashqelon area*, landsnails, annual cycle of O, C-isotope ratios in shells, 84M/1739
Molybdate ions, adsorption by Na-saturated kaolinite, 84M/3934
Molybdenite, epitaxial crystallization of antrachinon on cleavages, differentiation of active centres by life span, 84M/0424; *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075; *USA*, *Maine*, occurrences, brief descriptions, 84M/2315; *Columbia*, *Mocoa*, occurrence in porphyry Cu deposit, geol., 84M/3917
Molybdenum, colorimetric reagent for, 84M/0066; behaviour in alkali silicate melts, effects of excess SiO_2, CO_2 on, 84M/0355; future in USA and World economy, (book), 84M/1256
—, compounds, MoS 2*H* and 3*R*, anisotropic mean-square displacements in single crystals, 84M/0193
—, deposits, magmatogenic hydrothermal system in, computer simulated hydrodynamic and thermal model, 84M/0225; *Norway*, *Oslo graben*, *Skrukkelia*, geol., 84M/3900; *China*, *north Hebei – western Liaoning area*, metallogeny, 84M/3891; *Jiangxi Prov.*, *Yangchuling*, porphyry type, geol. characteristics, 84M/3911; *Liaoning Prov.*, assoc. with Yanshanian granite, genesis, 84M/1473; *Korea*, *Dae Hwa* (*Yaewha*), geochem., 84M/1497; *Weolag*, metamorphic, ore-forming events, C, H, O, S isotope and fluid inclusion studies, 84M/4088; *Australia*, *Queensland*, *Ben Lomond*, geol., 84M/0289; *Mount Turner*, geol. environment, 84M/2601
Monazite, *Britain*, distrib. in panned stream sediments, palaeogeographic implications, 84M/3472; *India*, *Andhra Pradesh*, *Kanigiri area*, with Nb minerals in granitic rocks, 84M/0575; *Himalayas*, *Palung granite*, high resolution U/Pb systematics, 84M/0026; *USA*, *Alaska*, Eu-rich in alluvial concentrates, 84M/3222; *Nevada*, *northern Snake Range*, metamorphic, U-Pb-Th ages, 84M/1223; *North Carolina*, *Great Smoky Mtns.*, zoned metamorphic porphyroblasts, anals., 84M/4281; *Virginia*, *Lovingston formation*, in vein-type U deposits, 84M/1697; *Antarctica*, *Napier complex*, from polymetamorphic rock, Pb isotope compn., colour, microstructure, 84M/4080
MONGOLIA, augite from alkaline basalts, structure, 84M/0782; Late Palaeozoic basalt-comendite systems, 84M/0995; *RE* element partition coefficients between apatite in magnetite-apatite rock, 84M/4079; *Bayan Obo*, Middle Proterozoic acidic volcanic rocks, 84M/0996; gabbro, *RE* element content, 84M/1728; *Baiyun Ebo Fe deposit*, O isotope compn. of magnetite, hematite, 84M/2823; *South Gobi belt*, alkali granites, comendite, cystallization, melt inclusion study, 84M/4376; *v.* also *China*
Mongshanite, *China*, new oxide mineral in ilmenite from kimberlite, 84M/4292
Monohydrocalcite, formation, stability in sea water, effects of salinity, humic acid, 84M/0434
Montanite, *USSR*, *Lower Amur region*, Pb-bearing, occurrence, props., 84M/4259
Montgomeryite, *USSR*, *Kazakhstan*, *Karatan Ranges*, ferrian, occurrence, props., 84M/1916; *USA*, *South Dakota*, *Tip Top mine*, red, occurrence, props., 84M/1917
Montmorillonite *v.* smectite
Monzogranite, *Canada*, *Nova Scotia*, *Ellison Lake pluton*, cordierite-bearing intrusion, 84M/3393
Mooihoekite, *Poland*, *Krzemianka*, in titanomagnetite ore, anals., 84M/4262
Moon, The, *v.* Lunar studies
Moonstone *v.* feldspars, cryptoperthite
Moraines *v.* glaciers
Mordenite *v.* zeolites
Morinite, *Germany*, *Hagendorf*, secondary, description, 84M/0877
MOROCCO, octahedral graphite aggregates in ultramafic pluton, probable paramorph, cause, 84M/1869; *El Hamman*, burtite, new mineral, 84M/0879; *Haut Atlas*, Triassic sedimentation, reactivation of ancient faults, 84M/1085; *central Haut Atlas*, Mesozoic alkaline magmatism, assoc. thermic phenomena, 84M/0983; *eastern High Atlas*, base metal deposits, stable isotope study, 84M/1676; *Sidi-Bettache basin*, Devonian- Dinantian subsidence, magmatism, 84M/0937; *Touissit*, faked red anglesite crystals, 84M/4569; *Touissit*, *Zelidja mine*, wulfenite, new find, 84M/4570; *Touissit - Bon Beker region*, *Oued Mekta*, Mississippi Valley type Pb deposit, geol., 84M/1490
Mössbauer studies, spectroscopy for detection of Fe in mixed valency states, description, 84M/0149; synthetic clinopyroxenes in join $CaFe^{3+}AlSiO_6$-$CaTiAl_2O_6$, 84M/0164; $\gamma LiAlO_2$:Fe^{3+} standard for tetrahedrally coordinated ferric iron, 84M/0186; goethite, influence of Al substitution, crystallinity on spectrum, 84M/0187; $(Fe_{1-z}Me_z)_3(PO_4)_2$ graftonite-type solid solns., cation, distrib., 84M/0202; Fe in aegirines, aegirine-salites, 84M/0785; cation distrib. in tirodite-dannemorite series, 84M/1368; synthetic Mn-lipscombite, 84M/1401; synthetic vonsenite, 84M/1409; iron(III)-rich fayalites, 84M/2502; spectra of natural garnets, 84M/2505; amphibole asbestos, cation site population, 84M/2518; spectra of hydroxycarbonate green rusts, 84M/2544; particulate Fe material from seasonally anoxic lake, 84M/2965; capillary spectroscopy for soln. chem., 84M/3691; effect of dithionite/citrate/bicarbonate treatment on vermiculite, smectite, soil, 84M/3715; ^{57}Fe spectra of glasses in system $Na_2O.xSiO_2$-Fe-O, 84M/3975; spectrum of Fe-bearing cordierite, heating, radiation effects on, 84M/4011; Fe-bearing silicate melts, effect of *P* on structure, 84M/4033; Fe-bearing alkaline-earth silicate melts, 84M/4034; ^{57}Fe study of Fe^{3+} coordination in oxidized and reduced Na-aluminosilicate glasses, 84M/4036; *Sweden*, Mn-bearing phlogopites, Fe^{3+}_{IV}-Mn^{2+}_{VI} pair adsorption as cause of reverse pleochroism, 84M/1849; *Finland*, *Lapland*, aluminous orthopyroxenes, line broadening, 84M/2516; *Italy*, *Lake Maggiore*, vivianite formation in sediments, 84M/3225; *Czechoslovakia*, *Slovakia*, rubification of red soils (terrae rossae), 84M/3767; *Caucasus Mtns.*, of Fe in dolerite, granite porphyry dykes, use in ident. of radiation effects, ages, 84M/3629; *Australia*, structural Fe in kaolin, 84M/3729; surface Fe in kaolin, 84M/3730; *Antarctica*, *Taylor Valley area*, for study of desert varnish on dolerite, sandstone, 84M/2978; *Pacific Ocean*, *Costa Rica rift*, saponite from layer 2 basalt, 84M/2183
Mottramite, *Germany*, *Clara mine*, new find, 84M/4559
Mpororoite, *Australia*, *Tasmania*, *Kara mine*, with anthoinite pseudomorphous after scheelite, 84M/4255
Mud, USGS standard MAG-1, detn. of Br, I in, 84M/0717; drilling-, dispersion in marine environment, use of particulate metal traces, 84M/1535; *Greece*, *Santorini*, *Kameni Islands*, Fe-rich, origin, 84M/2969; *Bahamas* and *USA*, *Florida*, lime-, artificially compacted cores, mechanical, chem. compaction, 84M/1105; *Atlantic Ocean*, *Blake Outer ridge*, hemipelagic Pliocene/Pleistocene, carbonate diagenesis, min., geochem., 84M/2199
Mudrocks, *Egypt*, Phanerozoic, major changes in clay mineralogy, 84M/0122
Mudstones, birdseyes, fenestrae, shrinkage pores, loferites in, re-evaluation, synonymony with voids, 84M/1061; *England*, *Avon*, *Aust Cliff*, playa cycles in, 84M/4448; *east China*, amino acids in 84M/1794; *USA*, *south west North Dakota*, producing/non-producing zones in gas-bearing marine deposit, geophys. differentiation, 84M/1327; *Antarctica*, *Alexander Island*, sedimentary dykes of, 84M/1101; *Graham*

Mudstones (*contd.*)
Land, Nordenskjöld formation, Jurassic radiolarian, with tuffs, 84M/1100
Mullite, superstructures in synthetic, high resolution EM, electron diffraction studies, 84M/2510; reaction series to kaolin, structural characterization of spinel phase, 84M/2742; melt grown, solid soln. range, microstructures, 84M/4009; thermal conductivity under He as function of T, P_{He}, 84M/4532
Murdochite, *USA, New Mexico, Hansonburg mining dist.*, new structure detn., 84M/1388
Muscovite *v.* mica
Mylonite, zoned plagioclase porphyroblast from growth, 84M/0803; *Sweden, Köli nappes*, assoc. with thrusting, 84M/1118; *Scotland, Sutherland, Arnaboll thrust*, reaction softening in, 84M/1119; *Australia, Chewings Range*, quartzite, state of strain in, 84M/1971; *Canada, Newfoundland, St. Anthony complex*, overlying pillow lavas, 84M/3558
Mylonitization, *Norway, Bindal massif*, progressive, 84M/4486; *France, Brittany, Chatelaudren metagabbro*, softening during progressive, evidence from metagabbro shear zones, 84M/3527; *USA, Connecticut, Honey Hill fault zone*, Late Palaeozoic, textural, Rb/Sr evidence for, 84M/4517

NAA *v.* neutron activation analysis
Nacrite, effect of crystal field on vibration spectrum, 84M/1375
Nagashimalite, *Japan, Gumma Pref., Mogurazawa mine*, cryst. struct., 84M/0161; new mineral, props., 84M/0888
Nahpoite, *Canada, Yukon, Big Fish River area*, new mineral, 84M/0890
NAMIBIA, *Damara belt*, Rb/Sr geochron., tectonic evolution, 84M/1213; fold belt, case study, (book), 84M/2453; *Damara orogen*, geosynclinal, structural, metamorphic development of intracontinental branch, overview, 84M/3276; geosynclinal development, geodynamic model, 84M/3277; turbidites in, 84M/3278; Upper Proterozoic playa-lake deposits, sedimentology, min., 84M/3279; fluid inclusions and genetic aspects, 84M/3280; common metamorphic sediments, chem. compn., 84M/3281; stability conditions of calc-silicate assemblages, exptl. study, 84M/3287; stability conditions of calc-silicate assemblage in originally marly rocks, exptl. study, 84M/3288; regional metamorphism in, crustal radioactivity and motion as causes, 84M/3289; granitic rocks, survey, origin, 84M/3290; geochron., review, 84M/3291; granites, genesis in light of Rb/Sr, $\delta^{18}O$ data, 84M/3292; cooling history, reconstruction, 84M/3293; deep seismic sounding, 84M/3294; join of coastal and intracontinental branches, 84M/3295; Damara orogeny, alternative geodynamic models, 84M/3296; pelites, loss of metals from during regional metamorphism, 84M/4152; *Damara orogen, central* and *southern*, metamorphism of siliceous dolomites, 84M/3286; *southern*, min. compn. variations in metapelites in low- to medium-grade metamorphism, 84M/3285; *northern branch*, depositional development, timing of structural and metamorphic evolution, 84M/3284; *Naukluft nappe complex*, root zone, geodynamic implications, 84M/3282; *Ugab structural domain*, structural development, 84M/3283; *Otavi mine*, kyanite single crystals, thermal decompn., 84M/2724; *Swakop area*, yellow boltwoodite crystals anal., twinning, data, 84M/3122; *Tsumeb*, gebhardite, new mineral, props., 84M/1929; johillerite, new mineral, data, 84M/3240
Namuwite, *Italy, Vincentino area, Trentini area*, occurrence, 84M/3603
Nappes, *Greenland, Inugssugssuaq*, magma generated structures, Late Archaean development, 84M/0954; *Scandinavia, Seve-Köli complex*, strain discontinuities in, 84M/4307; *Norway, Aurlandsfjorden* to *Nærøyfjorden*, subdivision of Jotun complex, 84M/2255; *Sparagmite region*, 84M/1981; *Poland, Kosarzyska nappe*, tectonic evolution of Niedzica succession, 84M/3312; *France, Pardailhan nappe*, events during emplacement, implications from strain distrib., basal thrust zone structure, 84M/1974; *Spain, Betic Cordillera, Aguilón fold nappe*, structure, tectonic evolution, 84M/3310; *Germany, Harz Mtns.*, 84M/3262; *south east Rheinisches Schiefergebirge*, tectonics, 84M/3268; *Alps*, finite strain patterns in, 84M/1975; *Switzerland, Ticino, Maggia*, structure of northern lobe, 84M/0932; *Sultanate* of *Oman*, emplacement, 84M/2111; *Namibia, Damara orogen, Naukluft complex*, root zone, geodynamic implications, 84M/3282; *Canada, British Columbia, Scrip nappe*, stratigraphy, deformational history, 84M/0946
Natrobistantite, *China, Xinjiang, Kyokfogoi*, new mineral, props., 84M/1937
Natrolite *v.* zeolites
Natromontebrasite, *England, Cornwall, Megiliggar Rocks*, occurrence, microprobe anals., 84M/1912
Naumanite, *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485
NAURU, stream, ground, soil, rain water, chem. compns., 84M/3031
Nefedovite, *USSR, Kola Peninsula, Mt Yukspor* and *Kiniok River*, new mineral, props., 84M/1938
Nelenite, *USA, New Jersey*, description, 84M/4606; *Franklin*, new mineral, data, 84M/3244
Neodymium, *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, $NaBaNd(Si_2O_7)$, crystal structure, 84M/3797
—, isotopes, $^{143}Nd/^{144}Nd$, use as tracer for mantle isotope geochem., 84M/0508; *British Isles*, in sediments related to crustal development, 84M/0596; *Iceland*, relationship to other isotopes in volcanic glasses, 84M/2867; *USA, Hawaii, Oahu*, evidence for basalt multiple sources, 84M/2914; *Pacific Ocean, Galapagos spreading centre*, evidence for hotspot system evolution, 84M/2915; *north east Pacific Ocean* and *Gulf of California*, geochem. of igneous rocks, 84M/2917
Neon isotopes, ^{21}Ne production rate in stony meteorites, 84M/3090
Neotocite, *USA, Arizona, New Cornelia mine*, description, 84M/4608
Nepheline, liquid and glass heats of fusion, enthalpies, 84M/1559; *USSR, Kovdor pluton*, varieties, ident. from intensity of light from second optical harmonic, 84M/3577
—, group, structure, effects of T, P on, 84M/1346
Nephelinite, *USA, Hawaii, Oahu, Moiliili*, olivine-melilite-, low-P fractionation of undersaturated alkaline ultrabasic magma, 84M/2061
Neptunic dykes *v.* dykes, neptunic
Neptunite, *Australia, NSW, Woodsreef serpentinite*, opt., anals., XRD, 84M/3181
Neptunium compounds, NpO_2, thermal expansion data, 84M/4537
NETHERLANDS *east* and *south*, 'jade-axes', petr., 84M/4615
NETHERLANDS EAST INDIES, history of volcanology in, 84M/1029
Neutron activation analysis, isotope-source, automatic sample-changer for, 84M/0072; radiochemical, for detn. of standard rock Cr content, 84M/0724; radiochemical, for simultaneous detn. of noble metals in geol. samples, 84M/2444; use in anal. of *RE* elements, 84M/2815; *Japan, central Hokkaido*, study of pyroclastic flow deposits, 84M/2903
Neutrons, thermal, possible cause of biological extinctions 65 m.y. ago, 84M/2802
Newberyite, crystallization, effect of pH, concentration, 84M/0207; formation from struvite in aqueous systems, 84M/0442; synthetic, crystal structure, single crystal neutron diffraction study, 84M/3849
NEW BRITAIN, Hf–Nd–Sr isotopes, incompatible element abundancies in island arcs, implications, 84M/4122
NEW CALEDONIA, heat-treated Ni-bearing clay minerals, IR studies, 84M/1305; boninite, petrogenesis, chem. and Nd–Sr isotope constraints, 84M/1731; limonitic-type laterites, comparison with American lateritic Ni ores, 84M/2561; stream, ground, soil, rain water, chem. compns., 84M/3031; *Népoui*, clinoenstatite-bearing lava, 84M/3387; *Tiebaghi*, podiform chromite deposits in ophiolite complexes, genesis, 84M/2136
NEW GUINEA, stream, ground, soil, rain water, chem. compns., 84M/3031
NEW HEBRIDES, stream, soil, ground, rain water, chem. compns., 84M/3031; *Erromango Island*, lavas, min., evidence of early stage fractionation in island-arc basalts, 84M/0582; *Vanuatu*, sediments, igneous rocks from subducted plate, Sr-isotopes, K, Rb, Sr balance, 84M/0514
New minerals, described 1978–1982, perspective, 84M/1943; *USSR*, first reported from 1976–1981, references, 84M/0899; agardite-(La), 84M/1923; argutite, 84M/3228; aschamalmite, 84M/1924; bannermanite, 84M/0878; barentsite, 84M/1925; bulachite, 84M/3229; burtite, 84M/0879; cabriite, 84M/1926; carboirite, 84M/3228; chameanite, 84M/3230; charlesite, 84M/3231; chiavennite, 84M/0880; chromdravite, 84M/0881; clinokurchatovite, 84M/3232; comancheite, 84M/0882; davanite, 84M/4283; eclarite, 84M/3233; eggletonite, 84M/1927; eifelite, 84M/0883; ferronickelplatinum, 84M/1928; ferrostronzite, 84M/3234; fransoletite, 84M/3235; gaine-

New minerals (*contd.*)
site, 84M/3236; garyansellite, 84M/4284; gebhardite, 84M/1929; geffroyite, 84M/3230; giraudite, 84M/3230; gormanite, 84M/0884; hashemite, 84M/3237; henryite, 84M/1930; hingganite-(Yb), 84M/1931; janhaugite, 84M/3238; jeppeite, 84M/3239; johillerite, 84M/3240; kamitugaïte, 84M/4285; keivyite, 84M/3241; kinichilite, 84M/1932; kittatinnyite, 84M/3242; kostylevite, 84M/1933; lindsleyite (Ba), 84M/0885; lithiotantite, 84M/1934; lithosite, 84M/0886; lotharmeyerite, 84M/1935; lun'okite, 84M/0887; macaulayite, 84M/1936; macphersonite, 84M/3243; mathiasite-(K), 84M/0885; nagashimalite, 84M/0888; nahpoite, 84M/0890; natrobistantite, 84M/1937; nefedovite, 84M/1938; nelenite, 84M/3244; oursinite, 84M/0889; panasqueiraite, 84M/0891; phosphofibrite, 84M/3245; pokrovskite, 84M/4286; rhodplumsite, 84M/0892; richelsdorfite, 84M/3246; santaclaraite, 84M/4287; sayrite, 84M/0893; schulenbergite, 84M/3247; schumacherite, 84M/3248; scotlandite, 84M/3249; sobolevite, 84M/1939; srilankite, 84M/3250; straczekite, 84M/3251; strontian-loparite, 84M/3252; strontiochevkinite, 84M/3252; suzukiite, 84M/4288; sweetite, 84M/3253; taneyamalite, 84M/1847; tantite, 84M/1940; terskite, 84M/0894; tobelite, 84M/4289; tolbachite, 84M/1941; urancalcarite, 84M/4290; ushkovite, 84M/0895; vyuntspakhkite, 84M/3254; wallkilldellite, 84M/3242; wicksite, 84M/0896; wilhelmvierlingite, 84M/0897; willhendersonite, 84M/4291
—, names, hydrosodalite, new sodalite-like phase, structure at low-*T*, 84M/3820
—, probable, *Cyprus*, *Limassol Forest*, Ni–Fe arsenides, three probable new, 84M/2075
—, unnamed, Li-aluminate phase in system Li_2O–Al_2O_3–ZrO_2, 84M/0413; new synthetic Ag In Se_2 phase, 84M/0426; Cu–Fe–Bi–sulphide, 84M/0898; natural analogue of synthetic ε–MnO_2, 84M/3255; Fe–Ni–Si–O layered mineral in Mighei meteorite, 84M/4203; *India*, *Kolar*, unnamed $Pb_3Te_9Cl_4S_2$ and $PbTeCl_2$, 84M/3883; *South Africa*, *Jagersfontein*, K, Ba, Ca-bearing members of crichtonite series, 84M/2821; *USA*, *Colorado*, *St Peter's Dome*, 'mineral Y', identity with Zn-, Y-bearing senaite, comparison with Brazilian, 84M/1882
—, varieties, *USSR*, *Kola Peninsula*, *Khibiny pluton*, iron-eitelite, props., 84M/4276; *Germany*, *Bavária*, *Hagendorf*, kingsmountite, possible ferrian variety, 84M/1917; *Red Sea*, Ni-free schreibersite, 84M/0821
NEW ZEALAND, soils from rhyolitic volcanic ash, weathering sequence, implications of allophane, halloysite, 84M/0144; boninite-like lavas, petrogenesis, chem. and Nd–Sr isotopic constraints, 84M/1731; mineral occurrences, brief descriptions, 84M/2315; peat, lignite, coal, formation and chem. origin, use of $^{18}O/^{16}O$ ratios, 84M/3058; soils, Hg intrusion porosimetry related to clay mineralogy, texture, 84M/3726; *Alpine fault zone*, semi-brittle deformation within, 84M/4332; *South Auckland*, Oligocene giant oysters, taxonomic status, isotopic evidence for palaeoenvironments, 84M/1740; *Auckland prov.*, diatoms accompanying vivianite, 84M/1914; *Bay of Plenty*, *Mayor Island*, pyroclastic deposits, volcanic history, 84M/1032; *Darran Mtns.*, *Hollyford gabbronorite*, calc-alkaline cumulate, 84M/3388; *Dun Mtn.*, *ophiolite belt*, geol., 84M/2118; *D'Urville Island*, oceanic ridge metamorphism of volcanic rocks, 84M/4437; *south D'Urville Island*, intrusive suite, closed-system fractionation beneath slow-spreading ridge, 84M/4435; *Fiordland*, *Darran complex*, geochem., mineralization, criticism of previous paper, 84M/1002; further criticism, 84M/1003; reply, 84M/1004; *Lake Taupo*, He-isotope profile, 84M/1778; *Mokai geothermal field*, structure, geophys. evidence, 84M/4413; *Mt. Cook Nat'l. Park*, *Mueller Glacier*, recent moraines, revised ages, 84M/1215; *Nelson*, *Aorangi mine area*, Ordovician rocks, geol., graptolite faunas, 84M/1098; *Nelson*, *Champion mine*, mcguinnessite, new occurrence, props., 84M/4278; *Nelson*, *Marius Valley*, late Pleistocene glacial sequence, ^{14}C dating, 84M/0035; *Nelson*, *Warwick Valley*, sedimentation and glacial chronology, 84M/0036; *North Island*, *Alexandra volcanic group*, distrib., form, structural control, 84M/1035; *Coromandel Peninsula*, Late Quaternary tephras, mixed sequence, 84M/1036; *Matahina*, post-depositional changes in ignimbrite, SEM study, 84M/1031; *Mount Tarawera*, basalt dykes in 1886 rift, 84M/1034; *Taupo volcanic centre*, Waimihia and Hatepe plinian deposits, study, 84M/1033; *western Otago*, *Arrow Junction*, piemontite-bearing schist, min., petr., 84M/3553; *Southern Alps*, metabasites, magma type, tectonic setting, 84M/4438; *South Island*, *West Coast*, Tertiary sedimentary rocks, densities, 84M/1159; *Southland*, *Murihiku terrane*, Glenham porphyry, K/Ar age, 84M/0037; *Takitimu Mtns.*, Lower Permian interbedded volcaniclastic sediments/volcanic rocks, lithostratigraphy, 84M/1001; *Taieri Estuary*, estuarine mixing of dissolved Fe, Cu, Ni, Si, relation to colloid stability surface props., 84M/0659; *Wairakei*, magnetite in geothermal steam pipelines, new evidence on O-isotope geothermometers, 84M/1666; *Wairakei* and *Broadlands geothermal fields*, rare alkalies in hydrothermally altered rocks, waters, 84M/0658; *Wellington*, *Karori*, palygorskite in fault gouge, 84M/0127; *White Island volcano*, cyclic variation in eruption products, 1976–1979, 84M/1037; *Westland*, *Whitcombe* and *Hokitika Rivers*, ultramafic rocks, lithology, field relations, structure, 84M/3389.
Niccolite *v.* nickeline
Nickel, adsorption in soil, effect of pH, 84M/0314; future in USA and World economy, (book), 84M/1256; extractable amount in settling ponds, prediction, 84M/1516; partitioning between olivine/sulphide, application to Ni–Cu sulphide deposits, 84M/1608; detn. in EDTA soil extracts by AAS, 84M/2432; assay in lateritic ores, field trial of bulk mineral analyser, 84M/2443; incorporation in β–$Ca_3(PO_4)_2$, 84M/2711; partitioning between silicate, Fe sulphide melts, 84M/3976; *Belgium*, content in Fe-sulphides, 84M/1897; *River Meuse*, adsorption on hydrous oxides, application of model, 84M/2632; *Madeira*, detn. in volcanic rocks, 84M/2880; *Iraq*, distrib in rocks, 84M/0605; *Western Australia*, *Eastern Goldfields area*, accumulation in *Hybanthus floribundus*, 84M/2620; *New Zealand*, *Taieri Estuary*, mixing, relation to colloids stability, surface props., 84M/0659; *north east Pacific Ocean*, concentration of 84M/2627
—, -cobalt deposits, *Turkey*, *Çaldağ*, min., 84M/0260
—, compounds, NiO, thermal expansion data, 84M/4536; NiS_2, electronic structure, 84M/1391; synthetic $Ni_{17}S_{18}$, struct., planar faults, 84M/0196; $NiSO_4.6D_2O$, cryst. struct., 84M/0200; $NiSiO_3$ gels, dissolution with organic agents, 84M/0690; α–Ni_2SiO_4, crystal structure, electron distrib., 84M/1362; spinelloids, stability in system $NiAl_2O_4$–Ni_2SiO_4, 84M/3974
—, -copper deposits *v.* copper-nickel deposits
—, deposits, supergene, ore associations, 84M/1422; *USA*, *Minnesota*, *Dunka Road deposit*, petr., chem., 84M/1507
—, ions, Ni^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797
—, isotopes, in meteorites, studies, 84M/0746; in Allende and other meteorites, 0747
—, -laterites, *v.* laterite
—, minerals, *Poland*, *Szklary*, with chlorite-vermiculite struct., 84M/0117
—, ores, *Iran*, *Talmessi* and *Meskani*, with Cu, Co, U, geol., min., 84M/3882
Nickeline, reflected light study, 84M/3566; *England*, *Knowle borehole*, rims around coffinite in nodules, 84M/0755; *Iran*, *Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
NIGERIA, gem-quality gahnite, compn., comparisons, 84M/4252; *Afu Younger granite complex*, F content and behaviour in granitic rocks, 84M/0572; *Anambra basin*, *Akukwa-Z well*, Late Cretaceous, Early Tertiary shales, petroleum geochem., 84M/1793; *Benue Trough* origin, differences from East African rift, 84M/1191; lineaments around, anal. by remote sensing techniques, 84M/1192; *Bornu Prov.*, *Geidam dist.*, meteorite, data, compn., 84M/3089; *Bornu prov.*, *Matsena area*, Younger Granites, geol., 84M/3368; *Ifewara area*, geochem. of lateritic soils in greenschist-amphibolite belt, factors influencing, 84M/3040; *Igbeti area*, potassic granites, evidence of polycyclic evolution of Pan-African belt, 84M/2889; *Jos Plateau*, *Amo Younger Granite complex*, evolution, mineralization, geochem. aspects, 84M/1726; *Nassarawa Eggon* and *Mkar-Gboko granites*, geochron., 84M/3652; *Tibchi complex*, ring-complex structural evolution, 84M/0987; *Wamba Plateau State*, metamorphic ultramafic rocks, 84M/1133
Ningyoite, coffinite pseudomorphs after, relation to 'P-bearing' coffinite, 84M/4212
Niobium, *Norway*, *Vestfold volcanic area*, *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Ireland*, *Doolough Point area*, content in granite gneiss, 84M/3000;

Niobium (*contd.*)
south Bulgaria, in granitoids, geochem., 84M/1725; *China, Fujian Prov.*, in rare-metal pegmatite, geol., geochem., 84M/1476; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, NbO_2, thermal, expansion data, 84M/4537
—, minerals, euhedral crystals from metasomatic processes, possible mechanism of formation, 84M/1550
—, -tantalum minerals *v.* tantalum-niobium minerals
Niocalite, twinning, crystal structure, revision, 84M/3796
Nitrates, movement, interaction in vegetation cover–soil groundwater–rock system, 84M/1528; concentrations under irrigated agriculture, 84M/1529; pollution of groundwater by, data acquisition, evaluation, 84M/1531
—, deposits, *Chile*, geol., geog., production, use, 84M/0303
Nitric acid *v.* acids, nitric
Nitrogen, in iron meteorite acid residues, 84M/0733; in mantle mineral-forming media, new data, 84M/2791; isotopically anomalous in primitive meteorites, 84M/3099; from natural gas, detn. of isotopic ratios by gas chromatography, 84M/3690; microbial alteration of stable, 84M/4169; *USA, Green River formation*, from ammonia, in oil shales, 84M/3049; *Atlantic Ocean, Chesapeake Bay, Delaware Bay* and *New York Bight*, organic, source of in continental shelf sediments, isotopic evidence, 84M/4181
—, complexes, organic, significance of Mn(IV) oxide (birnessite) in natural abiotic formation, 84M/4171
—, compounds, N_2O, adsorption by clinoptilolite, 84M/2284; *USA, Texas, Gulf Coast*, nitrous oxide emissions from wetlands, 84M/4071
—, isotopes, compn. in amino acids from cultured microorganisms, 84M/4170; biogeochem. of thermal springs, 84M/4172
Noble gases, solubility in H_2O, NaCl brine, 84M/0365; constraints on mantle layered structure, 84M/2858; *Canada, Rocky Mtns., Fairmont Hot Spring*, evidence for geothermal activity, 84M/0663; *Atlantic Ocean, Mid Atlantic Ridge*, two components in basalt, 84M/4096; *Reykjanes Ridge*, component in glassy basalts, 84M/2866; *Pacific Ocean, Loihi Seamount*, systematics in coexisting glass, olivine in basalts, dunite xenoliths, 84M/3440
Noble metals *v.* metals
Nodules, ferromanganese, *central Pacific Ocean*, Co fluxes, growth rates, 84M/2563
—, manganese, detn. of Pt in USGS standard by fire assay-spectrographic method, 84M/0713; world distrib. of metal-rich subsea Mn-nodules, anal., 84M/1414; chem. compn., influence of depth, geochem. pattern in single nodule, review, 84M/1752; resources, assessment, data and methodologies (book), 84M/2450; composed of todorokite not '10 Å manganite' or buserite, implications, 84M/3206; 7 Å X-ray reflection in, observations, 84M/3207; *Argentina, Tucumán, Puerta Quemada*, in sandstones/argillites, probable origin, 84M/0549; *equatorial* and *south west Pacific Ocean*, micronodules, characteristics, comparisons, 84M/4464; *Philippine Sea*, La, Ce, Nd, V, Y, Zr, Nb distrib. in, 84M/4090
—, phosphate, *south west African shelf*, Holocene, C-isotope distrib. in lipids from, relation to genesis, 84M/3055
—, polymetallic exploitation, scientific, technical, economic, legal problems (book), 84M/2455; *v.* also concretions
Nolanite, crystal chem., 84M/1389
Nontronite, parameters of induced thermoluminescence spectrum, 84M/2462; *USA, Washington, Freeman*, structure defects in dehydrated, 84M/3736; *Pacific Ocean, Juan de Fuca Ridge*, from low-*T* hydrothermal system, 84M/2482
—, chromian *v.* volkonskoite
Noonkanbahite, comparison with K-batisite from charoite-bearing rocks, 84M/0799
Nordenskiöldite, *China, Dading Sn–Fe deposit*, first Chinese occurrence, 84M/3123
Nordstrandite, morphology, 84M/2696
NORTH AMERICA, fractionation of Zr, Hf in cassiterite, 84M/0825; Precambrian, palaeomagnetism, look at data base, 84M/1161; kimberlite genesis, geodynamic setting, 84M/4379; *north east*, early Mesozoic tholeiites, tr. element geochem., 84M/2897; *Adirondack Mtns.*, fluid heterogeneity during granulite facies metamorphism, 84M/4158; *Cordilleran region*, metallogeny and tectonics, symposium papers, 84M/0213; accretionary tectonics, 84M/0948; *Western Cordillera*, 'subcalcic' garnet, formation in scheelite-bearing skarns, 84M/1826; *v.* also *Canada, United States of America*
Northern Ireland v. Ireland
NORTH KOREA, Haumyan, angle σ in moonstone, TEM study, 84M/0178; *v.* also *Korea*
NORTH SEA, C_{27}, C_{28} triterpanes in sediments, characterization, 84M/0700; interlayered clay stacks in Jurassic shales, 84M/2480; Jurassic deltaic deposits, sedimentological, palaeontological anals., 84M/4446; *central graben*, dolomitization in chalk, 84M/1067; *East Shetland basin* and *Viking graben*, hydrocarbon generation, migration from Jurassic rocks, 84M/0703; *Erlend volcanic complex*, internal structure, seismic study, 84M/3341; *Mid North Sea high*, buried granites in, 84M/0958; *Moray Firth, Beatrice oilfield*, diagenesis in petroleum basin, dating by new fluid inclusion method, 84M/3640
NORWAY, U mineralization, classification, 84M/0224; granitic pegmatites, light stable isotope systematics, 84M/2943; mineral deposits, annotated bibliog., (book), 84M/3692; *south*, Devonian tectonic deformation in Caledonides, regional perspectives, 84M/1983; Late Proterozoic basin evolution on Baltoscandian craton, 84M/1984; sedimentation of organic-rich limestones in Late Precambrian, 84M/4140; *south east*, chem., flow patterns in groundwaters, 84M/1784; *southern*, basalts assoc. with 'sparagmites', geochem., 84M/0553; explosive volcanism perforating Precambrian basement, age, 84M/1205; subsidence, tectonics in Late Precambrian/Palaeozoic sedimentary basins, 84M/2204; contrasting Fe–Ti, Mg–Cr garnet peridotites in high grade gneiss complex, 84M/3517; *Arendal, RE* element, Th–Hf–Ta and large-ion lithophile element variations in metabasites, 84M/0627; *Åstadalen*, basal till, min., geochem., relationship to till-forming processes, 84M/1764; *Aurlandsfjorden* to *Nærøyfjorden*, subdivision of Jotun nappe complex, 84M/2255; *Bindal massive*, progressive mylonitization, 84M/4486; *Bjørkedalen peridotite*, eclogites, petr., 84M/3518; *Bolstadfjord*, Fe, Mn in waters and sediments, geochem., 84M/3937; *Evje, Landsverk 1 pegmatite*, anomalous hydrothermal fluids, evidence from O, H isotope disequilibria, 84M/4072; *Finnmark*, ultrabasic fenites assoc. with Pollen carbonatite, geol., geochem., origin, 84M/0617; *Finnmark, Karasjok greenstone belt*, komatiitic chlorite-amphibole rocks, mafic metavolcanics, 84M/4485; *Masi area*, Precambrian stratigraphy, 84M/1979; *Repparfjord–Komagfjord window*, stratigraphy, structure, 84M/1980; *Trondheim region, Fongen-Hyllingen complex*, age, 84M/0006; small-scale igneous layering, origin, 84M/0956; cumulate chem., bearing on layering origin, evidence, 84M/3340; *Frøya, Skaget*, fluidization breccia in granite, 84M/2053; *Gjerdingen*, janhaugite, new mineral, data, 84M/3238; *Gjøvik, Osen* and *Galåa*, S-isotope compn. in Pb-deposits, 84M/1668; *Hadeland, Gran*, camptonite and maenite sills, 84M/4355; *Jonsvatn greenstone formation*, volcanostratigraphy, eruptive products, 84M/4427; *Karmøy ophiolite*, geol., prelim. geochem., 84M/2123; *Langesund area*, eudialyte-eucolite and co-existing catapleiite, geochem., 84M/3133; *Larvik, Lillevik dyke complex*, geochem., tectonic implications for probable Caledonide ophiolite fragment, 84M/1715; *Leka*, Caledonian ophiolite, complex, geol., 84M/2124; *Lødingen granite*, age, possible regional significance, 84M/3633; *Lofoten–Vesterålen area*, Earth's crust, study, 84M/2335; *Magerøy*, inclusion patterns in zoned garnets, 84M/1824; *Molde Penin.*, Proterozoic augen orthogneiss, geochem., Rb/Sr study, 84M/2997; *Nelaug*, layered migmatites, origin, 84M/2247; *Nybö eclogite*, crystal chem., cation ordering in system diopside-jadeite, crystal structure refinement study, 84M/1839; *Opdal, Risberget nappe*, rapakivi granite, augen gneiss, Rb/Sr age detns., 84M/1203; *Oppland-Hedmark region*, HNO_3-soluble heavy metals in stream sediments, 84M/4183; *Oslo region*, chiavennite in syenite pegmatites, min., data, 84M/0773; Silurian succession, geol., 84M/4309; *Oslo region, Ringerike dist.*, Ordovician rocks, structure, evidence of thrust system, 84M/1982; *Oslo graben, Skrukkelia Mo deposit*, geol., 84M/3900; *outer Oslofjord* and *northernmost Skagerrak*, Quaternary sediments, bedrock geol., 84M/1985; *Rogaland*, secondary ilvaite in dolerite dyke, anal., 84M/4224; *Hidra massif*, massif-type anorthositic-charnockitic body, Pb-isotope geochem., 84M/2998; *Rogaland/Vest-Agder*, polyphase Caledonian metamorphism in Precambrian basement, 84M/2254; *Setesdalsheiene*, amphibolites, metagabbros,

NORWAY (*contd.*)
petr., 84M/3523; *Solund*, Devonian lavas, field relationships, 84M/4354; *Sørøy, Husfjord complex*, plutonic complex, geol., 84M/3339; *Sparagmite region*, nappe, thrust structures, 84M/1987; *Støren, Soknedal*, mélange deposits, nature, tectonic setting, 84M/3448; *Strand Peninsula*, polymetamorphic rocks, genesis, 84M/3522; *Sulitjelma*, amphibolites, interpretation as part of Lower Palaeozoic ophiolite complex, 84M/2125; *Sulitjelma*, gabbro, *T*, *P* estimates in contact aureole, implications for ophiolite origin, 84M/2126; *Telemark, Fen complex*, Fe ores, petr., chem. evolution equilibrium conditions, 84M/1435; *Gjerstad gneiss*, resetting of Rb/Sr isochrons during Sveconorwegian events, 84M/1204; *Trondheim dist.*, Cyprus-type sulphide deposits, 84M/2140; *Trondheim, Benna area*, secondary elemental mobility within greenstones, 84M/1766; *Vestfold volcanic area, Sæteråsen*, geochem. exploration methods for Nb, *RE* elements, 84M/1807; *Western Gneiss region*, dolerite dykes and psammite, Rb/Sr study, 84M/0007
Nuclear magnetic resonance, use in characterization of natural and synthetic clay catalytic props., 84M/1264; ^{29}Si, high-resolution spectroscopic studies of rock-forming silicates, 84M/2495; solid state ^{29}Si study of kaolinites, 84M/2522; ^{29}Si and ^{27}Al spectroscopy for study of 2:1 clay minerals, 84M/3752; for distinction tetrahedrally/octahedrally coordinated Al in phyllosilicates, 84M/3807
—, reactors, natural in Precambrian period, 84M/2789
—, waste, immobilization of Cs from, implications of $CsAlSiO_4$ alteration in hydrothermal fluids, 84M/1541; disposal, implications from hydrothermal reactions with Sr, simulated transuranic elements, 84M/1542; disposal, implications from element migration, retention at *Oklo, Gabon*, natural reactor, 84M/1543; possible use of tobermorites in disposal, 84M/2606
Nucleic acids, sequences, evidence for evolutionary connections of biol. kingdoms, 84M/3053
Nyerereite, *Tanzania, Kerimasi volcano*, calcite pseudomorphs after in natrocarbonatite, 84M/2054

Obsidian, NBS standard SRM 278, detn. of elements by ICP–atomic emission spectrometry, 84M/0726; use as decorative stone, dating by surface hydration layer thickness, 84M/1651
Oceans, dredged volcanic rocks from southern, chem. anals., 84M/1052; intrusive process at spreading centres, relevance of structures in *Bay of Islands* ophiolite complex, 84M/1054; slow-spreading ridges, petr., min. constraints on hydrothermal processes at, 84M/1055; ocean ridges, deep structure in convecting mantle, 84M/2333; Archaean, possible limits on compn., 84M/2784; chem. during glacial time, comment, 84M/2794; sea-floor flattening at old ages, role of lithospheric phase transitions, 84M/3299; magma fracture beneath mid-ocean ridges, cause of median valley, 84M/4558
—, basins, *Sweden, Jofjället area*, opening of, greenstones related to, 84M/0628
—, ridges, mid ocean ridges, rock $^{176}Hf/^{177}Hf$ ratios, comparisons, 84M/0583; *Atlantic Ocean, Afar* and *Icelandic ridges*, evolution, comparisons, 84M/1189
Ocelli, *Chile, Sarmiento ophiolite complex*, unusual, in dolerite, 84M/4444
Ochre, red, use in Indian medicine, 84M/1527; *Cyprus*, Cretaceous deposits, comparison with Pacific pelagic clay, 84M/2078
Offretite *v.* zeolites
Ogasawara Islands v. Bonin Islands
Ogdensburgite, *USA, New Jersey*, description, 84M/4606
Ohmilite, crystal structure refinement, 84M/1366
Oil *v.* hydrocarbons
—, -bearing rocks, *Canada, Alberta, Cold Lake*, sandstones in Clearwater formation, provenance, feldspar compn., 84M/3493
Okenite *v.* zeolites
Old Red Sandstone *v.* Devonian rocks
Olistostromes, *Germany, Harz Mtns.*, 84M/3262
Olivine, electrostatic energies of M_2SiO_4 polymorphs, 84M/0157; equilibria in olivine/liquid system, *T*, *P*, compn. dependence of Mg, Fe^{2+}, Ca, Mn crystal/liquid partition coefficients, 84M/0448; non-stoichiometry, point defects, 84M/1605; phase relations in high-grade metamorphic Fe-formations, 84M/1613; class of pigments for vitreous enamel industry, 84M/2608; transformation of (α) to spinel (γ), new intermediate phase, 84M/2654; dislocations from scratches, TEM study, 84M/2714; equilibria involving, thermodynamic anals., 84M/2716; phosphoran in Zaisho pallasite, 84M/3108; relations between (130) spacing, chem. compn., cation site preference, 84M/3119; Mg-Mn and Mg-Ca olivines, compn., order/disorder, lattice parameters, 84M/3120; Ni-Fe, cation ordering, corrections, discussion, 84M/3791; reply, 84M/3792; polymorphs of Mg_2SiO_4, structural and physical props., computer simulation, 84M/3793; exposure to shock waves, planar elements in, 84M/3961; atomic diffusion coefficients for transition metals, 84M/4004; with melilite, clinopyroxene in lavas, partitioning of Fe, Mg between, 84M/4024; shocked crystals in Allan Hills A77005 meteorite, Fe^{3+} in, 84M/4197; formation of iddingsite rims on TEM study, 84M/4238; sympletic exsolution in, 84M/4210; fluid/solid precipitates in, evidence for peridotite deformation in mantle, 84M/4296; *Greenland, Motzfeldt centre*, from nepheline-syenites, microprobe anals., 84M/1841; *Skaergaard intrusion*, replaced by ilvaite, 84M/3137; *Scotland, Huntly* and *Belhelvie*, corona symplectite-forming reaction with plagioclase, quantitative estimation, 84M/2019; *Finland, Koillismaa igneous complex*, microprobe anals., 84M/4353; *USSR, Noril'sk area*, from layered mafic/ultramafic intrusions, primary inclusions in, 84M/4373; *South Africa, Jagersfontein* and *Kampfersdam mines*, graphic intergrowths with rutile in kimberlite, 84M/4381; *Canada, Ontario, Alexo*, spinifex flow, comparison with clinopyroxene flow, 84M/2041; *USA, Arizona* and *Red Sea, Sergebet Island*, C surface concentration profile in, $^{12}C(d,p)^{13}C$ and photo-electron spectroscopical studies, 84M/0519; *Brazil, Goiás, Niquelandia complex*, fabrics, use as petrogenetic indicator, 84M/2050
—, fayalite, iron(III)-rich, Mössbauer measurements, 84M/2502; phase relations in join with kirschsteinite, 84M/2720; high-*P*, Fourier-transform IR spectrum, 84M/3790
—, forsterite, transformation to spinel in Mg_2SiO_4 via faulted structures, 84M/1606; single crystal, elastic properties to 1200K, 84M/2279; exptl. nucleation without pyroxene, 84M/2649; retention of implanted Xe ions in synthetic, 84M/2660; synthesis of palygorskite at room *T* from, 84M/2741; high-*P*, Fourier-transform IR spectrum, 84M/3790; dissolution at pH4, near-standard *T*, *P*, 84M/4005
—, liebenbergite, occurrence in Cu converter slags, microprobe anal., 84M/2670
—, peridot, *Tanzania*, gem quality, new locality, anals., 84M/0492
—, -plagioclase corona, *Japan, Mt. Ikoma*, in metanorite, growth, steady diffusion model, 84M/0352
Oman v. Sultanate of Oman
Omphacite *v.* pyroxene
Ongonite, element partition coefficients in, 84M/4073
Onoratoite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Ooids, carbonate, *in situ* generation of methane in, evidence, 84M/1791
Oolites, *South Africa, Barberton Mtn. Land, Fig Tree group*, pseudo-, in Archaean rocks, new interpretation, 84M/2217
Oozes, *Mediterranean Sea*, thiosulphates in, 84M/0606
Opal, bacterial breakdown, 84M/0361; yellow-brown cat's-eye, description, 84M/0498; Gilson synthetics, props., 84M/1639; Gilson 'Mexican synthetic', props, 84M/1640; sorption of U on, 84M/3744; precious, origin, conditions and mechanism of formation, 84M/4049; *USSR, Kazakhstan, Sarykul-Boldy* and *Pstan*, praseopal, colour, spectroscopic and colorimetric studies, 84M/4048; *Poland, Szklary massif*, in serpentinite, occurrence, geol., 84M/4051; *Italy, Sicily*, with zeolites, montmorillonite in Miocene deposits, 84M/1079; *Spain, Tajo basin*, ageing features of Miocene, 84M/1072; Miocene, primary and diagenetic textures in, 84M/3473; *India, Kerala*, in Tertiary sediments, 84M/2219; *Western Australia, Yilgarn block*, cement with kaolinite for saprolites, grits, silcretes, 84M/1095; *Mexico, Querétaro*, occurrence, inclusions, 84M/0489
—, hyalite, *Japan, Shikoku, Takanawa Peninsula*, U-bearing, pegmatite occurrence, 84M/4574
—, imitations, plastic, new study, props., 84M/1638; 5 Gilson products, investigation, 84M/2764; Gilson fire opal with play of colours, props., 84M/2765
—, mining *South Australia*, industry survey 1979, 84M/2762; *Queensland*, summary, 84M/2763
Ophiolites, International Symposium Proceedings, (book), 84M/0087; early history

phiolites (*contd.*)
of term, evolution until 1945, 84M/2079; tectonic merging of crust in oceans, 84M/2080; crustal thinning near fracture zones, evidence, implications, 84M/2081; origin, new interpretation, 84M/2082; parental basaltic magma, compn., 84M/2083; ophiolitic basalts, petrographic dissimilarities from ocean floor basalts, 84M/2084; ocean crust or marginal basin crust, geochem. approach, 84M/2085; petrographic classification, application of non-linear mapping algorithm, 84M/2086; metamorphism beneath obducted slabs, 84M/2088; obduction mechanism, 84M/2089; origin, possible role of back-arc basins, island arcs, 84M/2090; Tethyan, short review, main problems, 84M/2091; lavas from Tethyan, genesis, eruptive setting, geochem. evidence, 84M/2092; lithosphere-asthenosphere decoupling at spreading centres, obduction initiation, 84M/3445; equilibrium state of diopside-bearing harzburgites from, geobarometric, geodynamic implications, 84M/4015; *Scandinavia*, fragments in Caledonides, 84M/2127; *Norway, Karmøy*, geol., prelim. geochem., 84M/2123; *Leka*, Caledonian complex, geol., 84M/2124; *Ofoten region*, probable fragment in Caledonides, implications from Lillevik dyke complex geochem., tectonics, 84M/1715; *Sulitjelma*, amphibolites, possibly part of Lower Palaeozoic complex, 84M/2125; gabbro, *T*, *P* estimates in contact aureole, implications for ophiolite origin, 84M/2126; *England, Cornwall, Lizard complex*, new investigations, discussion of ophiolite model, 84M/2121; two phases of suboceanic deformation, 84/2122; hot or cold emplacement?, 84M/3449; dykes in, geol., geochem., 84M/3451; *USSR, Polar Urals, Voikar-Syninsky complex*, distrib., geochem. of Pt group elements, 84M/1688; *Austria, Styria, eastern central Alps*, possible ophiolite origin for pre-Alpine ultramafic rocks, 84M/2128; *Tauern window*, related mineralization, 84M/2141; *Switzerland, Valais, Monts-Dolins region*, evidence of oceanic metamorphism in, 84M/1045; *Italy, northern Apennines*, gabbroic complexes from, chem., petr., 84M/2096; petr., comparison with other Tethyan, 84M/2097; *Cottian Alps, Monviso complex*, lithology, 84M/2098; *Liguria*, Au content, 84M/2144; *Spain, Murcia, Caravaca*, prehnite formed by hydrothermal alteration, 84M/3172; *Ordenes complex*, mafic rocks from, geochem., 84M/2147; *Mediterranean*, and related Mesozoic volcano-sedimentary sequences, 84M/2093; *Greece*, metasomatic transformation of plagioclases during spilitization, 84M/2099; *Ermioni*, Mesozoic metalliferous sediments from, analogue of Recent mid-ocean ridge ferromanganese deposits, 84M/2849; *Guevgueli complex*, differentiation of magma, 84M/2102; *Orthrys Mtn.*, possible old oceanic crust, 84M/2100; geotectonic context, 84M/2103; *Vourinos*, age, microfossil data, 84M/2101; magmatic series with island arc affinities within, 84M/4428; *Cyprus, Mamonia complex*, Mesozoic continental margin, relationship to Troodos complex, 84M/2073; *Pentadaktylos Range*, volcanism and continent-island arc collision, 84M/2072; *Troodos complex*, antidromous evolution, stoichiometric geochem. aspects, 84M/0568; role in unravelling problem, 84M/2067; tectonic setting in east Mediterranean, 84M/2068; structural implications in evolution, 84M/2069; sheeted complex, new interpretation as component of upper ophiolite magma chamber, 84M/2071; search for sulphide mineralization, applicability of induced polarization geophysical method, 84M/2077; assoc. metallogenesis, 84M/2134; *Troodos* and *Hatay*, K/Ar ages, 84M/2095; *Lesser Caucasus*, tectonic position, 84M/2104; *Turkey, Antalya*, multiple intrusions in magma chamber, evidence, 84M/2105; *Bitlis massif area*, disrupted Tethyan, lithology, 84M/2094; *Iran, Neyriz region*, disrupted Tethyan, 84M/2094; *Sabsevar zone*, major element geochem., 84M/2107; *Saudi Arabia, Arabian Shield*, Upper Proterozoic mélange zones, 84M/2148; *Jabal al Wask* and *Jabal Ess*, late Proterozoic, Sm/Nd data, implications for crustal, mantle evolution, 84M/3654; *Sultanate of Oman*, Upper Cretaceous ridge-transform intersection in, 84M/2110; origin of chromite deposits in, textural, geochem. evidence, 84M/2138; obduction-related planar and linear fabrics, 84M/4430; *Semail*, magma chamber, evidence from gabbro variation, internal structure, layering, 84M/2108; evidence from cryptic variation, min. chem., 84M/2109; *Pakistan, Zhob Valley, Muslim Bagh* (*Hindubagh*) geol., emplacement, 84M/2112; *Tibet, Dengqen County*, outcrops, dyke swarms in, new information, 84M/1050; *Donqiao*, tectonic environment, geodynamic significance, 84M/4431; *Rikaze-Bailang zone*, pelagic, zeolite in sedimentary sequence, 84M/2236; *Yarlung Zangbo* (*Tsangpo*) *suture zone*, occurrence, tectonic evolution, 84M/1051; *Himalayas, Ladakh Himalaya*, ophiolite-sedimentary belt of Indus tectonic zone, stratigraphy, tectonic significance, 84M/2113; *India, Ladakh batholith, Indus* and *Shyok*, comparison with Dras volcanics, 84M/3460; *Naga Hills*, and assoc. mineralization, 84M/2143; *Indian* and *Burman border*, complexes, occurrence, 84M/1048; *Japan, Hokkaido, Horokanai*, geochem., 84M/2904; *Australia, Tasmania*, Cambrian ultramafic complexes, geol. environment, petr., tectonic significance, 84M/2133; *Sudan, Sol Hamed*, Late Proterozoic, 84M/1046; *Canada, Newfoundland, Bay of Islands complex, P-T* conditions during emplacement, 84M/1053; *Bay of Islands complex, North Arm massif*, structure of sheeted dykes, intrusive process at oceanic spreading centres, 84M/1054; *St. Anthony complex*, emplacement record in dynamothermal aureole, 84M/2130; *Quebec*, Appalachian, environment of formation, evolution, emplacement, 84M/2131; *USA, California, Del Puerto*, submarine hydrothermal metamorphism, 84M/4441; *Chile*, evidence for role of spreading centre magma chambers in Phanerozoic ocean crust formation, 84M/2119; *Sarmiento complex*, unusual ocellar textures in dolerite, 84M/4444; *Pacific Ocean, Mariana trench*, clinoenstatite-bearing pillow lavas (marianites) with, 84M/2117; *v.* also metaophiolite
—, belts, *China, Xizang, Yarlung Zangbo*, basic geol. features, 84M/2116; *New Zealand, Dun Mtn.*, geol., 84M/2118
—, complexes, Pt-group minerals in chromite from, occurrence, petr. significance, 84M/4424; *Scotland, Ballantrae*, graptolite faunas, structural implications, 84M/2066; accretionary lapilli, highly vesiculated pumice in, 84M/4406; *Yugoslavia, Inner Dinarides*, non-metallic minerals in ultramafic rocks, 84M/2139; *Saudi Arabia, Jebel Thurwah*, Upper Proterozoic, geol., 84M/3372; *Iran, Neyriz*, ultramafic, cumulates in, 84M/2106; *India, Nagaland*, subduction zone complex in Tethyan orogenic belt, 84M/2115; *New Caledonia, Tiebaghi*, podiform chromite deposits in, genesis, 84M/2136; *Angola* and *Gabon, Mayombe belt*, evidence from for belt formation, new geotectonic interpretation, 84M/3459; *Chile, Tortuga*, petr., 84M/2120; *Mediterranean* and *Pacific belts*, Pb-isotope systematics, 84M/4101
—, rocks, *Oman*, reflectances in Landsat MSS bands, 84M/4429
—, series, *circum-Pacific belt*, genesis of ultramafic rocks, 84M/4440
Optical emission spectroscopy, for detection of Fe in mixed valency states, description, 84M/0149; matrix, element, sample transport effects, 84M/2436
Ordovician fossils *v* fossils
—, rocks, *Norway, Oslo region, Ringerike dist.*, structure, evidence of thrust system, 84M/1982; *England, Shropshire, Shelve inlier*, two new volcanic centres, 84M/4408; *Scotland*, stratigraphy, 84M/0911; structure, palaeogeog., 84M/0912; *Ireland, Co. Mayo, Charlestown area*, new min. deposit in volcanic sequence, discovery, 84M/1448; *France, Pierrefitte-Nestalas*, volcanosedimentary sequence, lithology, mineralization in, 84M/1456; *New Zealand, Aorangi mine area*, geol., graptolite faunas, 84M/1098; *Canada, Newfoundland, Indian Bay Big Pond*, first fossilferous volcanogenic rocks, regional significance, 84M/4335
Ore deposition, application of Hg speciation in hydrothermal systems to, 84M/3952
—, deposits, displaced terrains, concept, intro., 84M/0214; search for, genetic concepts *vs.* observational data, 84M/0221; related to greenstones, origin, effect of seawater/basalt reaction, 84M/0230; min. compn., zoning in, Hg sublimation *T* as indicator, 84M/0537; metallogenic specialization, heritage, 84M/1423; sedimentary, continental crustal regimes as factors in formation, 84M/2551; alluvial placers, contribution to origin, 84M/2555; Precambrian, possible microbial pathways in formation, 84M/2778; tenor contraction, origin of, 84M/3870; pyritic Cu and polymetallic, economic value, scientific significance, 84M/3871; genetic indicators, role of hot vadose brine in, 84M/4165; *Baltic area, Baltic Shield, Ladoga region*, metallogenic belt of long-evolving deep faults, 84M/3879; *Sweden*, stratabound sulphide deposits in higher nappe complexes, Pb-isotope systematics, 84M/1669; *USSR*,

Ore, deposits (*contd.*)
Gornyi Altai, Cu-Bi-Co-W mineralization, 84M/0267; *Kazakhstan, Akchatau deposit*, thermobarogeochem. study, 84M/2597; *Noril'sk area*, layered metalliferous intrusives, mechanism of formation, 84M/4372; *Rudnyi Altai, Korbalikha*, massive-sulphide–polymetallic deposit, geol., formation conditions, 84M/0287; *Urals, Uzel'ga ore field*, massive sulphide lodes, position in rock cross-sections, 84M/0266; *Yenisey Ridge, Lower Angara block*, new type of Riphaean ore-controlling structure, 84M/1492; *England, Derbyshire* and *Devon*, buried, effects of meterological variables on soil gases used in detection, 84M/3034; *Scotland, Gairloch area*, Lower Proterozoic stratiform Cu-Zn-Au mineralization, 84M/1482; *Ireland*, rapid subsidence and early Carboniferous base-metal mineralization, 84M/0249; in Carboniferous rocks, possible relation to Lower Carboniferous rift, 84M/1451; *Ballinalack Zn-Pb deposit*, lithology, petr., min., 84M/1443; *Co. Limerick, Carricklittle prospect*, exploration, mineralization, 84M/1445; *Co. Mayo, Charlestown area*, new deposit in Ordovician volcanic sequence, discovery, 84M/1448; *Co. Meath, Navan orebody*, min. textures, metal zoning, ore environment, 84M/1442; *Co. Tipperary, Silvermines*, fossil hydrothermal chimneys, mounds, formation, 84M/4084; *Silvermines* and *Ballynoe*, regional lithostratigraphical setting, 84M/1452; *France, Massif Central, Brioude-Massiac dist.*, Sn-W-Au, Sb and Pb-Zn mineralizations, fluid inclusion study, 84M/3875; *Pierre-fitte-Nestalas*, mineralization in volcano-sedimentary sequence, 84M/1456; *Belgium*, Pb-isotopes in Pb-Zn-Ba mineralization, general genetic model, 84M/1454; *Dianant synclinorium*, vein mineralizations, 'epigenetic-foreign' character origin, 84M/1684; *Liege, Chaudfontaine*, S-isotopes of baryte, Pb-isotopes of galena, implications for deposit origin, 84M/1671; *Portugal, Neves Corvo*, exhalative Cu, Zn, Ag, geol. setting, 84M/2565; *Austria, Carinthia, east Gailtalkristallin*, new sulphidic deposits, 84M/2590; *Italy, Sardinia, Sulcis*, in carbonate rocks, structural setting, genesis, 84M/1459; *Caucasus Mtns., Sadon region*, polymetallic, thermobarogeochem. zonation in, 84M/0234; *Greece, Macedonia, Koronuda*, min. study, 84M/2595; *Cyprus, Kalavasos*, form, environment of formation, 84M/2076; *Turkey*, lineaments from Landsat imagery, relation to possible mineralization, 84M/0237; *Hungary, Börzsöny Mtns.*, metallogenic, min., geochem. studies, 84M/2568; *Romania, Rodna Mtns., Blazna-Guset mining area*, stratabound Pb-Zn-pyrite deposits in Upper Precambrian carbonate rocks, 84M/1463; *Bulgaria, Čelopeč orefield, Vozdol*, min. characteristics, 84M/1488; *West Balkan Mtns., Sokolec*, stratiform polymetallic deposits, structural characteristics, 84M/1464; *China*, stratabound of Kuandian group, 84M/3886; stratabound polymetallic, Pb,S isotope studies, 84M/4087; *south China*, minerogenetic series of Mesozoic granites, brief discussion, 84M/1427; *Bayan Obo* and *Shilu*, possible relationships, 84M/3885; *Jilin Prov., Tonghua region*, metallogeny of Diwa-type granitic rocks, 84M/3889; *Nei Monggol region, Hogeqi deposit*, genesis, ore forming mechanism, discussion, 84M/2850; *north Qilian, Xiatieshan deposit*, ore forming processes, reference to physiochem. conditions, 84M/3908; *western Shandong*, karst limonitic, prelim. discussion, 84M/3892; *Xinjiang*, major, basic characteristics, minerogenetic conditions, 84M/3887; *Japan, Fukazawa mine, Tsunokakezawa no. 1 orebody*, chem., role of Zr in formation, 84M/1694; *Australia, NSW, Broken Hill block*, Willyama supergroup, stratigraphic subdivision, metamorphic interpretation, 84M/0290; *Northern Territory, McArthur River*, Proterozoic Mississippi Valley-type, geol., 84M/0288; *Queensland, Mount Isa* genesis, Pb-isotope studies, 84M/2854; *South Australia, Olympic Dam deposit*, proposed new type of sediment-hosted ore deposit, geol., 84M/1501; *Western Australia, Kalgoorlie*, Autelluride mineralized and silicified pyritic shear zone, geochem., isotopic studies, 84M/0546; *Morocco, eastern High Atlas*, base metal, stable isotope study, 84M/1676; *Zambia, Copperbelt*, conditions of ore mineral formation, role of Co in, 84M/1466; *North America, Cordilleran region*, metallogeny and tectonics, symposium papers, 84M/0213; *Canada, eastern Hudson Bay*, metallogenes of early Proterozoic foreland sequence, 84M/2584; *British Columbia, Sullivan*, deposition environment, 84M/1504; structural evolution, 84M/2603; *Newfoundland, Moretons Harbour area*, As-Sb-Au mineralization, geol., fluid controls on, 84M/3897; *Quebec, New Insco Cu deposit*, geol., 84M/1503; *north western USA*, metal occurrence and terrain attributes, correlation, 84M/0217; *western USA*, distrib. in accreted terrains and cratonal rocks, 84M/0216; *Minnesota, Dunka Road Cu-Ni deposit*, petr., chem., 84M/1507; *Montana* and *Idaho*, sandstone (Revett) type Cu-Ag occurrences, genesis, 84M/1480; *Washington, Holden mine*, geol., 84M/1506; *Mexico*, tectono-stratigraphic terrains and min. resource distribs., 84M/0218; *Peru, Pasto Bueno*, mineralizing components in hydrothermal ore fluids, source, $^{87}Sr/^{86}Sr$ and stable isotope data, 84M/0548; *Chile, Aysen, Toqui dist.*, geol., 84M/1481; *v.* also mineral deposits.
—, formation, post-magmatic, relation of intrusive massif thermal-energy regimes, dynamics of emplacement, 84M/0226
—, forming solutions, oil-field brines as, 84M/3863
—, minerals, in sediments, diagenetic behaviour and crystallization sequences, 84M/1056; in ultrabasic rocks, relations to metallogenesis, 84M/2553; *Greenland, Karramiut Island*, microstructures, descriptions, 84M/0279
—, zones, rare-metal, 3-D models, 84M/0539
Ores, system with magma, gas phases of, 84M/2554; prediction, evaluation of potential in igneous rock associations, relation of rare element concentrations, Clarkes, 84M/0538; source of material, 84M/0540; *USSR, Dzhugdzhur Range*, apatite-ilmenite-titanomagnetite, genetic connection with anorthosites, gabbroids, gabbro-syenites, 84M/0982; *Czechoslovakia, Javor Mtns.*, mineralization in, 84M/0254; *West Carpathians*, sulphidic Ni-Co-Fe in ultramafic 84M/0252; *Turkey, Pontic Range*, paleomagnetic studies, 84M/1198
Oregonite, *Cyprus, Limassol Forest*, in serpentinite, 84M/2075
Organic matter, content in carbonate sediments, relation to petroleum occurrence, 84M/0704; recent of algal origin, thermal decompn. of complexes formed with divalent cations, 84M/1797; primitive, main factor in Earth's early geochem. evolution, 84M/1804; huminitic, maturation process study by high-*P* expts., 84M/2673; decompn. in lacustrine sediments, 84M/3931; microbial alteration of C isotopic compn., 84M/4169; *Europe, central Caspian region*, dispersed in Jurassic deposits, catagenic transformation, 84M/4176; *Italy, Apennines*, soluble/insoluble in the Livello Bonarelli shale, 84M/0701
Organometallic compounds, natural, interdependence of structure, props in, 84M/180
Orientation diagrams, calculation, crystallographic approach, 84M/0905
Orientite, *USA, Michigan, Keweenaw Co., Clark mine area*, occurrence, description, 84M/2317
Orogenic belts, *Tibet–Himalaya*, structure, evolution, 84M/4618
Orogenies, Variscan and Damaran, generalized comparison, 84M/3256; *Scotland*, Caledonian, ending of, 84M/3306; *Namibia, Damara orogen*, Damara orogeny, alternative geodynamic models, 84M/3296
Orpiment, use in Indian medicine, 84M/15
Orthite *v.* allanite
Orthoclase *v.* feldspar
Orthoericssonite, *Japan, Iwate Pref., Hijiku mine*, cryst. struct., 84M/0158
Orthogneiss, *Alps, Aar granite*, bulk inhomogeneous flattening, strain pattern in, 84M/1972; *Western Australia, Yilgarn block*, Archaean, Nd-isotope ages, 84M/0030
Osmium, variations in ratio with Ir in terrestrial rocks, minerals, 84M/2822
Osumilite, *Western Germany, Eifel dist.*, in xenoliths, anals., use as petrogenetic indicators, 84M/3136
Oursinite, *Zaïre, Shaba, Shinkolobwe*, new mineral, 84M/0889
Oxalic acid *v.* acids, oxalic
Oxalate ions, effect on Al-hydroxide precipitation, 84M/1311
Oxides, volatilities in steam-containing environments, predictive calculations, 84M/0340; thermopower in, measurement, interpretation, 84M/1157; XRD intensity, solid solutions, application to phase anal., 84M/2385; quantitative XRF anal., mixtures by empirical parameter method, new method, 84M/2396; interfaces with metals, study using sputter ion platin., 84M/3672; refractory, specific heat, solid, liquid state, 84M/4534; binary with NaCl, wurtzite structures, thermal expansion data, 84M/4536; binary with fluorite, rutile structures and antifluorite structure, thermal expansion data, 84M/4537
—, iron-titanium, estimates of T, f_{O_2} from anals. of multicomponent oxides, effects of recalculation, 84M/0403; use of coexisting

xides, iron-titanium (*contd.*)
on thermodynamic basis in geothermometry, O-barometry, 84M/0404
-, minerals, *Switzerland, Alps*, secondary, occurrences, 84M/1178; *Japan, Kii Peninsula, Ohmine granitic rocks*, paragenesis, 84M/1891
xygen, transport through SiO_2 surface layers on Si-containing ceramics, 84M/0347; self diffusion in MgO single crystals, 84M/0410; bonds with Ti, V, Cr, Mn, Fe, bond length—bond strength relationships, 84M/1355; self diffusion coefficient in single crystal Al_2O_3, effect of surface condition on, 84M/1581; self-diffusion coefficients in crushed $MgAl_2O_4$, effect of surface area/volume ratio upon, 84M/1582; diffusion in MgO, α-Fe_2O_3, 84M/2663; in early Earth's atmosphere, 84M/2785; early Earth atmospheric levels, 84M/2787; early Earth atmospheric levels, constraints from Archaean photoautotrophy, 84M/2788; in mantle mineral-forming media, new data, 84M/2791; diffusion in jadeite, diopside melts at high-*P*, 84M/4017; *Canada, Ontario, Elliot Lake*, early Proterozoic atmospheric content, possible use of uraninite-bearing conglomerates in detn., 84M/2774
-, isotopes, fractionations between wollastonite, diopside, jadeite, hedenbergite, zoisite and water, use in calibrating mineral-pair geothermometers, 84M/0520; equilibration during regional metamorphism, 84M/0625; ^{18}O, anal. in atmospheric CO_2, correction for N_2O, 84M/1657; exchange accompanying surface reactions, diffusion, theoretical evaluation, 84M/2659; variations in phosphate of fish-bone apatite, 84M/2839; variations in phosphorite rocks, 84M/2840; $\delta^{18}O$ of carbonatites, relationship with $\delta^{13}C$, 84M/2864; fractionation between CO_2, H_2O, 84M/3007; $^{18}O/^{16}O$ ratio in deep-sea sediments, effects of diagenetic recrystallization, 84M/2961; exchange between water and organic material, 84M/3044; relations in iron meteorites, 84M/3110; use in dating pre-Holocene groundwaters, 84M/3297; fractionation in scleractinian corals, 84M/4139; record of in Murchison meteorite, 84M/4205; *Iceland*, relationship to other isotopes in volcanic glasses, 84M/2867; *south west Sweden*, systematics in strongly recrystallized granitic rock complex, 84M/2868; *Britain*, evidence for role of continental crust in origin, evolution of Caledonian granites, 84M/1716; *Wales, Llŷn Peninsula, Sara complex* and *Parwyd gneisses*, $\delta^{18}O$ values, 84M/3643; *central Europe*, ^{18}O variations in limnic gastropods/pelecypods, 84M/4163; *Germany, Schwarzwald*, compn. in Hercynian granite, pre-Hercynian gneiss, 84M/1722; *Italy, Tuscany, Niccioleta*, compn. in sulphates from massive pyrite deposits, 84M/2833; *Israel, Ashqelon area*, $^{18}O/^{16}O$ ratio in landsnail shells, annual cycle, 84M/1739; *Negev Desert*, ^{18}O content in rain-water, relationship with air mass trajectories, 84M/1776; *China, Xizang, Yangbajain*, stable isotope compn. of geothermal waters, 84M/4166; *Mongolia, Baiyun Ebo Fe deposit*, compn. in hematite, magnetite, 84M/2823; *Australia, Strangeways* and *Fraser Ranges*, ^{18}O depletion in Precambrian granulites, 84M/4155; *Queensland, Einasleigh*, affinities, in Proterozoic mafic granulites, 84M/3003; *Canada, Quebec, Mattagami Lake Mine*, evidence for hydrothermal coprecipitation of talc, sulphides in sea-floor brine pool, 84M/1696; *USA, Adirondack Mtns., Willsboro mine*, evidence from wollastonites for anorthosite shallow emplacement, 84M/2843; *Andes Mtns.*, compn. in volcanic rocks, 84M/2956; *Andes, 26°-29°S*, compns. in plutonic, volcanic rocks, 84M/2955; *DSDP leg 65*, compn. in basalts, 84M/2161; *Caribbean Sea, Mid Cayman Rise*, submarine metamorphism of gabbros, study, 84M/0622; *Pacific Ocean, Costa Rica rift*, compn. in secondary silica phases, 84M/2177; compn. in basalts, 84M/2189; *v.* also ozone
Owyheeite, microprobe data, 84M/3209; variations in major element compns., microprobe study, 84M/4266
Ozone, in early Earth's atmosphere, 84M/2785; *v.* also oxygen isotopes.

Pachnolite, crystal structure, 84M/1405
PACIFIC AREA, ophiolite complexes, Pb isotope systematics 84M/4101; *south west*, Ni laterite deposits, occurrence, min., 84M/3894
PACIFIC OCEAN, Th content of bottom sediments, 84M/0608; distrib. of Cd, Pb, Cu, 84M/0646; organic C consumption in sedimentary reduction processes, ^{35}S-^{14}C detn., 84M/0687; La accumulation on seafloor, absolute rate, 84M/1762; pelagic clay, comparison with Cypriot Cretaceous umber, ochre, 84M/2078; Miocene C-isotope stratigraphy using benthic foraminifera, 84M/2962; ^{210}Pb particulate and dissolved concentrations, GEOSECS measurements, 84M/3025; *RE* elements near hydrothermal vents, 84M/3030; *central*, ferromanganese deposits, Co fluxes, growth rates, 84M/2563; *central 15°N, 20°S*, Pb content, vertical concentration profiles, 84M/3026; *equatorial* and *south west*, characteristics of Mn micronodules, comparisons, 84M/4464; *east equatorial*, glacial-Holocene transition in deep-sea sediments, Mn-spike, 84M/3027; *north*, Late Cretaceous, Palaeogene tectonic evolution, 84M/2336; *north east*, Pd, Ni contents, 84M/2627; *north east*, igneous rocks, Sr, Nd-isotope geochem., 84M/2917; Ag distribs., fluxes, 84M/3029; *north west*, α-emitting Th isotopes in deep waters, 84M/1785; *north* and *south*, partial pressure of CO_2 in sea-water seasonal effects of *T*, salinity, 84M/3020; *circum-Pacific belt*, ultramafic rocks, genesis in ophiolite series, 84M/4440; *DSDP site 465A*, spherules at Cretaceous-Tertiary boundary, result of extraterrestrial impact, 84M/1819; *DSDP site 467*, organic geochem., 84M/0679; *GEOSECS stn. 500*, intercomparison of ^{210}Pb measurements, 84M/3063; *MANOP site (11°N, 140°W)* deep-sea Mn encrustations, spatial variation of U-Th series radionuclides, tr. metals, 84M/4089; *MANOP site H, 6·5°N, 93°W, RE* element fluxes, geochem. budget, 84M/4144; *Baja California coast*, tr. metal remobilization in interstitial waters of red clays, hemipelagic marine sediments, 84M/1781; *Aleutian Basin, Bering deep basin*, turbidity current deposition of fatty acids, 84M/3045; *northern Cascadia Basin—Juan de Fuca abyssal plain*, clay min. strat., control by selective transport, 84M/0128; *Costa Rica rift*, sediments, min., XRD study, 84M/2175; silicified Upper Miocene chalk, petr., geochem., 84M/2176; secondary silica phases, O-isotope compn., 84M/2177; basalts, alteration in, prelim. results, 84M/2178; layer 2 basalts, alteration processes in, 84M/2179; anhydrite, occurrence, origin, 84M/2180; alteration minerals, chem., 84M/2181; secondary minerals in basalt, 84M/2182; saponite in layer 2 basalt, Mössbauer study, 84M/2183; secondary K-feldspar in basalts, problem of K-feldspathization in oceanic basalts, 84M/2184; melanite and aegirine-augite, occurrences, 84M/2185; basalts, sulphide petrology, 84M/2186; hydrothermal sulphides, S-isotope compn., 84M/2187; basalts, S content, S-isotopes, 84M/2188; basalts, O-, H-isotope compns., 84M/2189; Sr-, Pb-isotope compns., 84M/2190; basalt, possible example of multistage melting, geochem., exptl. data, 84M/2191; variously depleted basalts in same hole, 84M/2193; basalts, major, tr. element chem., alteration products, 84M/2194; basalt, geochem., 84M/2195; Cr-spinels in basalt, 84M/2196; compositionally nearly steady-state magma chamber, evidence, 84M/2197; basalt standards, interlaboratory comparison, 84M/2198; *in situ* electrical resistivity, bulk porosity of oceanic crust, 84M/3580; *East Mariana basin*, seismic stratigraphy, sedimentation history, 84M/2337; *East Pacific Rise*, sphalerite, arsenopyrite, chem. behaviour in hydrothermal, metamorphic environments, 84M/0851; basalts, example of typical oceanic crust depleted in hydromagmaphile elements, 84M/2158; authigenic-diagenetic clay minerals, 84M/2493; *hydrothermal vent field (13°N)*, *RE* elements, U in high-*T* solns., 84M/4091; chem. of solns., 84M/4168; *East Pacific Rise, 20°N to 21°S*, Pb-Sr isotopic variations along, comparison with Mid Atlantic Ridge, 84M/4119; *21°N*, oceanic tholeiites, ^{250}Th-^{238}U disequilibrium in, 84M/1734; hydrothermal 'black smoker' chimneys, growth history, 84M/2562; 'black smoker' bacteria, growth at 250°C plus, 84M/2801; S-isotope systematics, 84M/2847; *21°N, 13°N* and *20°S*, inferences for along-strike variability of axial processes, 84M/2149; *East Pacific Rise, DSDP leg 65*, sediments in contact with young oceanic crust, metamorphic processes in, 84M/2150; recovered sediments, X-ray mineralogy, 84M/2151; *Garret transform fault, 13°30'S*, ultramafic, mafic rocks, igneous petr., 84M/2064; *Tamayo region*, basalt glasses, petrogenesis, 84M/3461; *Explorer Ridge area*, basalt, geochem., 84M/4118; *Galapagos hydrothermal mounds field*, clay mins., origin, chem. and isotopic investigations, 84M/0132; green clay samples, sedimentology, min., geochem., 84M/2163; sediments, min., geochem., 84M/2164; hydrothermal and pelagic sediments, major, minor elements in, 84M/2167; sediments,

PACIFIC OCEAN (*contd.*)
partition geochem., 84M/2168; U series disequilibrium, isotope stratigraphy in mound samples, attempt at chronology, 84M/2169; *Galopagos rift zone*, hydrothermal deposits, min., geochem. of major components, 84M/2165; sediments, chem. compn., 84M/2166; fresh and altered basalts, geochem., min., 84M/2171; basalts, S, S-isotope content, 84M/2173; origin of S, geothermometry of hydrothermal sulphides, 84M/2829; ^{226}Ra, ^{222}Rn contents of hydrothermal waters, importance of low-*T* interactions with crustal rocks, 84M/2846; *Galapagos spreading centre*, basement basalts, petrography, chem., 84M/2170; hotspot system evolution, Nd-isotope evidence, 84M/2915; *Galapagos spreading centre, 85°–87°W*, erupted basalts, geochem., 84M/2172; *85°–86°W*, volatiles in basalts, andesites, 84M/2916; *Hawaiian Islands* to *Mexico coast*, asbolan and mixed-layer asbolan-buserite in Fe-Mn concretions, 84M/1885; *Juan de Fuca ridge*, active hydrothermal vents, sulphide deposits, 84M/0293; nontronite from low-*T* hydrothermal system, 84M/2482; *Loihi Seamount*, collected papers, introduction, 84M/3433; diverse basalts, geochem., petrogenetic implications, 84M/3434; petr., 84M/3435; ultramafic xenoliths, geobarometry, 84M/3436; basalt, ^{87}Sr/^{86}Sr ratios, 84M/3437; volcanic rocks, He isotope variations, 84M/3438; He isotopes, mantle volatiles in basalts, xenoliths, 84M/3439; coexisting glass, olivine in basalts, dunites, noble gas systematics, 84M/3440; hydrothermal deposits, geochem., 84M/3441; *Mariana arc*, submarine volcanoes, petr., chem., isotopic compns., 84M/2910; *Mariana trench*, marianites, clinoenstatite-bearing pillow lavas assoc. with ophiolite assemblage, 84M/2117; *Mathematician Ridge*, gabbroic rocks, 84M/3462; *central Mexico shelf 18°N, 108°W*, Mn transport through O minima, VERTEX programme results, 84M/4136; *Middle America Trench, Guatemala coast area*, convergent-extensional margin, new type, example, 84M/4619; *Mid Pacific Mtns.*, and *Hess Rise*, volcanogenic Cu, Zn minerals, 84M/3895; *Nankai trough* and *Japan trench*, varied responses to subduction in forearcs, 84M/4434; *Panama basin*, basalts, tr. element geochem., 84M/2192; Mn-carbonate overgrowths on foraminifera tests, 84M/2960; isotopic compn. of planktonic foraminifera, seasonal changes in, 84M/2986; flux of planktonic foraminifera, seasonal changes in, 84M/2987; ^{230}Th, ^{231}Pa removal at ocean margins, 84M/2989; particle flux, reworking at deep-sea floor, estimates using ^{234}Th/^{238}U disequilibrium, 84M/4147; *central Panama basin*, sedimentary, diagenetic processes since Miocene, lithology and compn. of sediments, 84M/2174; *Carnegie Ridge*, O-, C-isotope record of core V19-30, implications for Pleistocene North Atlantic deep water formation, 84M/3023; *San Pedro basin*, molecular fossils generated by hydrous pyrolysis of kerogen in Recent sediment, 84M/4182; *Tonga subduction zone*, deep seismicity, modes of deformation, 84M/4557

Padparadscha *v.* corundum, sapphire
Painite, gemmological props., ident., discovery, 84M/1647; *Burma, Mogok*, 1·7 carat crystal, second known example, 84M/0828
PAKISTAN, Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite from alpine-type deposits, 84M/4249; *Gilgit-Skardu area, Haramosh*, large aquamarine crystals, new find, 84M/4570; *Kashmir*, sapphire, history of deposits, production, 84M/0485; *Kohistan sequence*, metamorphism of obducted island arc, example, 84M/2265; *Peshawar, Katlang*, rose-coloured gem quality topaz, anal., props., 84M/2767; *Zhob Valley, Muslim Bagh* (*Hindubagh*) *ophiolite*, geol., emplacement, 84M/2112
Palaeodosimetry, props. of pyrite, 84M/0002
Palaeotemperatures, exptl. equation from planktonic foraminifera, 84M/0517
Palaeozoic rocks, *Denmark, Bornholm, in situ* thermal conductivity measurements, 84M/1168
Palagonitization, progressive subaerial of subglacial olivine tholeiite hyaloclastite, chem., 84M/4099
Palladium, dispersion trans, 84M/0672; content in geochem. reference samples by mass spectrometric isotope dilution anal., 84M/0723; content in Cr-spinel, ilmenite, magnetite from layered complexes, 84M/4249; *north east Pacific Ocean*, concentration of, 84M/2627
—, minerals, *Poland, Lubin* and *Polkowice mines*, in Zechstein Cu deposits, 84M/3191
Pallman effect, explanation of pH decreases in settled oceanic calcite slurries, discussion on previous paper, 84M/1753; reply, 84M/1754; further comment, 84M/1755
Palygorskite, oxidation of hydrocortisone by, role of Fe^{3+}, 84M/1312; diagnostic criterion in soil classification, 84M/1323; gemmological props., ident., discovery, 84M/1647; synthesis from forsterite at room *T*, 84M/2741; structure defects in, 84M/3813; *Portugal, east Trás-os-Montes area*, attapulgite in sedimentary deposits, origin, 84M/3757; *New Zealand, Karori*, in fault gouge, 84M/0127
Panama Basin v. Pacific Ocean
Panasqueiraite, *Portugal, Panasqueira*, new OH-equivalent of isokite, 84M/0891
Pangea, and the geoid and convection, relationships, 84M/4616
Papagoite, *USA, Arizona, New Cornelia mine*, description, 84M/4608
PAPUA NEW GUINEA, *Cape Vogel*, boninite, petrogenesis, chem. and Nd-Sr isotopic constraints, 84M/1731; boninite primary magmas, evidence, 84M/2034; *Enga Prov.*, soils, assessment for development, 84M/0142; *Marum ophiolite complex*, cumulus peridotites, gabbros, geochem., 84M/0578; *Panguna* and *Frieda Cu deposits*, S-isotope data, nature of hydrothermal systems, 84M/0543; *Port Moresby*, geol. excursions guide, 84M/0944; *Wau area*, evidence for low-*P* metamorphism, 84M/4505
Paragneisses, *India, Rajasthan, Karera*, polymineralic, metamorphic conditions, petrogenesis, 84M/3548
Paragonite *v.* mica
PARAGUAY, *Sarambi* and *Chiriguelo*, strontian-loparite, new mineral, data, 84M/3252
Parahilgardite, *USA, Louisiana, Iberville Pa ish*, struct., 84M/0203
Paramorphs, *Morocco*, octahedral graphi after diamond, cause, 84M/1869
Paraschachnerite, *Bulgaria, Kremikovci d posit*, occurrence, anals., 84M/0822
Parascholzite, *Germany, Hagendorf*, secon dary, description, 84M/0877
Parasymplesite, *Germany, Clara mine*, ne find, 84M/4559
Paratacamite, *Japan, Kagoshima Pref., Fi tago Island*, occurrence, X-ray, genet studies, 84M/4588
Paraumbite, *USSR, Khibina massif, Mt. Eve logehorr*, new mineral, props., 84M/1942
Parisite, *Poland, Tajno intrusion*, in carbona tite, XRD, 84M/0972; *USA, Montan* occurrence, brief description, 84M/2315
Particle track radiography, for *in situ* t element microanal., meteorite example 84M/0077
Partition coefficients, for Mg, Fe^{2+}, Ca,M olivine/liquid cations, *T, P*, compn. depen dence, 84M/0448; of *RE* elements i common magmas, effect of *P*, 84M/285 of elements in ongonite, 84M/4073; *Gra Canaria* and *St Helena*, for tr. elemen between melt/mineral in alkali basalt 84M/2891; *India*, zircons from variou geol. environments, 84M/2842; *Mongoli RE* elements between apatite in magnetit apatite rock, 84M/4079; *Lesser Antilles, Vincent*, of tr. elements in volcanic rock 84M/0594
Partitioning, of *RE* elements in diopside-me system, kinetic effect, exptl., 84M/0371; tr. elements, kinetic effects on, 84M/037 of Sn between melt/chloride fluid in syste granite-SnO-SnO_2-fluid, 84M/0391; tr. el ments in environmental geochem., healt 84M/1522; Ni between olivine/sulphid application to Ni-Cu sulphide deposit 84M/1608; actinides between whitlockite liquid, lab. study, 84M/2661; S-isotopes i Precambrian oceans, evidence from Pr terozoic anhydrite, 84M/2834; ferric F between Cr-spinel and basic silicate mel 84M/3973; Ni between silicate, Fe su phide melts, 84M/3976; Fe,Mg, betwee melilite, olivine, clinopyroxene in lava 84M/4024; *Canada, St Lawrence Estuar* of P between organic, detrital and no detrital fractions, 84M/3947
Pavonite, *Austria, Waschgang*, in Au-C deposit, ore mineralogy, anal., 84M/390
Pearceite, *Channel Islands, Sark, Sark's Hop mine*, occurrence, microprobe anal., 84M 0853; *Germany, Clara mine*, occurrence paragenesis, 84M/4562; *Romania, Blazn Guset mining area*, in stratabound or deposit, 84M/1463
Pearls, cultured button, gem trade lab. note 84M/0498; colour, fine structure, 84M 1652; ident. by X-ray diffraction, 84M 1652
Peat, extended hopanoids in peat enviro ments, 84M/3048; *Sri Lanka, Muthu ajawela*, geochem. of Au, Pt in mats, 84M 2973; *New Zealand*, formation and chem origin, use of ^{18}O/^{16}O ratios, 84M/305 *USA, Florida, Everglades*, S diagenesis i 84M/2983
Pecoraite, solid soln. with chrysotile, hydr thermal synthesis, props., 84M/274

Pecoraite (*contd.*)
USA, south east Missouri, replacing millerite, 84M/3170
Pectolite, hydrothermal treatment, exptl. studies on genesis of stevensite, 'hydrated talc', 84M/1619
Pegmatites, hydroxyl-bearing spodumene from, study, 84M/0786; lithium, zinnwaldite in, new discovery, 84M/0794; albite-spodumene, as variety of rare-metal granite, 84M/0992; rare-metal, assessment using mica, K-feldspar tr. element content, 84M/1665; differentiated granitic, sequence of min. assemblages in, 84M/2016; granitic veins, genesis, 84M/4472; *Norway, Evje, Landsverk 1 pegmatite*, anomalous hydrothermal fluids, evidence from O, H isotope disequilibria, 84M/4072; *Norway* and *North America*, granitic, light stable isotope systematics, 84M/2943; *Sweden* and *Czechoslovakia*, formation of chrysoberyl in metamorphosed, 84M/3204; *Scotland, Ardnish*, Precambrian, structural dating, relevance to status of 'Morarian orogeny', 84M/1121; *Glen Urquhart*, from serpentinite-metamorphic complex, Caledonian ages, 84M/1208; *USSR, Kola Peninsula*, Al-Ta phases in granitic, 84M/0841; *Ukraine, Korostyshev* and *Novograd-Volyn'*, undifferentiated, inclusions in quartz from, 84M/3380; *Poland, Jakuszyce area*, beryl-bearing, 84M/3357; *Karkonsze* and *Strzegom granites*, albite in, genesis, crystallization conditions, 84M/4242; *Austria, Steiermark, Koralpe*, spodumene-bearing, 84M/3531; *Czechoslovakia, Ctidružice*, masutomilite in, 84M/3162; *Bulgaria, Burgas dist.*, biotite from, 84M/0791; *Markova Trapeza deposit*, andalusite, corundum, tourmaline from, 84M/0777; *India, Haryana, Narnaul*, deformation structures in, 84M/1134; *Kerala, Trivandrum area*, chrysoberyl-bearing, genesis, relation to regional tectonic evolution, 84M/2268; *China, Fujian Prov.*, rare-metal, geol., geochem., 84M/1476; *Canada, Ontario, Madawaska mines*, U-bearing dykes, influence of metamorphosed gabbro in control, 84M/2937; *Sharbot Lake area*, uraniferous, 84M/2936; *Quebec, Mount Laurier*, Eu anomalies in *RE* element spectra, significance, 84M/0584
Pekoite, *Austria, Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902
Pelitic rocks, dehydration melting, generation of H_2O-undersaturated granitic liquids, 84M/1569; *Namibia, Damara orogen*, loss of metals from during regional metamorphism, 84M/4152; *Canada, North West Territories, Wopmay orogen*, geothermometry, geobarometry, 84M/4509
Pennantite *v.* chlorite
Pentlandite, exsolution from monosulphide solid soln., kinetics, mechanisms, 84M/0847; *Greece, Macedonia, Koronuda*, argentian, in ore deposit, 84M/2595; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Pacific Ocean, Costa Rica rift*, in basalts, 84M/2186
—, pyrrhotite *v.* pyrrhotite-pentlandite.
Peralkaline rocks, silicic, tr. element sanidine/glass distrib. coefficients, implications for peralkaline petrogenesis, 84M/2860
Percolation effect, principal patterns of, 84M/1788
Peretaite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Pereta mine*, occurrence, description, 84M/4567
Periclase, solid solubility of binary Fe_2O_3, Al_2O_3, Cr_2O_3 mixtures in, 84M/0415; class of pigments for vitreous enamel industry, 84M/2608; *Italy, Phlegraean Fields, Procida Island*, stevensite pseudomorphs after, 84M/2483
—, chromite, refractory, constitutional changes as function of P_{O_2} at high-*T*, 84M/1576
Peridot *v.* olivine
Peridotites, distrib. of Al-, Cr-rich pods in ophiolitic, 84M/0228; ilmenite from, geochem. features, 84M/0826; amphibole-, amphibole-carbonate-, phlogopite-carbonate-, phase relations, asthenosphere petrological constraints, 84M/1570; mantle, processes, kimberlite sample, 84M/1703; garnet-orthopyroxene barometry, 84M/3511; garnet-, thermobarometers for, evaluation, 84M/3970; deformation in mantle, extraction by kimberlite, case history, 84M/4296; *west Norway*, contrasting Fe-Ti, Mg-Cr garnet types, in high grade gneiss complex, 84M/3517; *Norway, Bjørkedalen*, petr. of eclogites in 84M/3518; *England, Cornwall, Lizard, Traboe area*, borehole sections through overlying hornblende schists, 84M/3450; *Italy, Seefeld Alm*, garnet-, pyroxenite lenses in, possible high-*T* origin, 84M/3520; *Turkey, Elaziğ, Guleman deposits*, geol., struct., 84M/0257; *Papua New Guinea, Marum ophiolite complex*, cumulus, geochem., 84M/0578; *Canada, Newfoundland, White Hills*, spinel phases, 84M/2129; *USA, Hawaii, Salt Lake Crater*, anhydrous, melting at high-*P*, relevance to basalt magma genesis, 84M/2718
—, massifs, *USSR, Aldan Shield*, amphiboles from, 84M/0789
Perlite deposits, *north east China*, geol. features, genesis, 84M/3925
Permian rocks, shales, influence of magmatic intrusions on diagenesis, 84M/3503; supposed Permo-Trias megashear between Laurasia, Gondwana, 84M/3616; *Western Europe*, general geol., excursion details, maps of French, Italian, Swiss U deposits, 84M/1457; *United Kingdom*, mineralization in by evaporite bacterial reduction, isotopic evidence, 84M/2835; *Scotland*, igneous, 84M/0916; palaeogeog., structure, geol., 84M/0917; *Northern Ireland, Co. Antrim, Larne no. 2 borehole*, new volcanic centre, discovery, 84M/1991; *Co. Wexford, Duncormick*, Zn mineralization, geol. setting, 84M/1447; *Poland, Zalas*, porphyries, albitization of plagioclase in, 84M/0804; *Żary pericline*, volcanic rocks, postmagmatic processes in, 84M/4478; *Germany, Schwartzwald*, volcanites, eruption age, Rb/Sr systematics, 84M/2340; volcanites, Rb/Sr systematics, 84M/3650; *China, Guangdong, Qujiang-Renhua area*, sedimentary facies, chem. variations in, 84M/1742; *Australia, NSW, Sydney Basin*, shoshonitic lavas, *RE* element geochem., 84M/4113; *north east Mali*, alkaline undersaturated and carbonatites, discovery, relation to rifting along West African craton, 84M/3369; *USA, Texas, Delaware Basin*, isotope shifts in, evidence from varves, 84M/2985
Perovskite, $CaGeO_3$, $GdFeO_3$-type, crystal structures, chem., 84M/2538; silicate perovskite, SiO_6^{8-} octahedral group in, prelim. Fourier-transform IR data, 84M/3821
PERSIAN GULF, molluscs from uplifted Holocene beaches, Th/U dating, 84M/2345
Perthite *v.* feldspar
PERU, *central*, subduction geometry and magma genesis, 84M/3402; *south east, RE* element enriched S-type ash-flow tuffs containing phenocrysts, 84M/2954; *Coastal batholith*, granophyric intrusives, crystallization history, 84M/2049; granites, new approach to mapping, 84M/3398; *Arequipa segment*, K/Ar ages, correlation with regional tectonic events, 84M/3669; *continental margin*, pore-water fluoride in sediments, 84M/2991; *Andahuaylas-Yauri belt*, igneous activity and mineralization, age, regional tectonic, metallogenic implications, 84M/3899; *Cerro de Pasco, Matagente mine*, supergene processes in Pb-Zn-Ag sulphides in carbonates, 84M/2558; *Hualgayoc*, sphalerite, compn. zonation around rhyodacite body, 84M/1895; *La Granja*, porphyry Cu deposit, geochem., 84M/1700; *Lima, La Oroya*, bournonite crystals, new find, 84M/4570; *Pasto Bueno deposit*, mineralizing components in hydrothermal ore fluids, source, $^{87}Sr/^{86}Sr$ and stable isotope data, 84M/0548; *Quellaveco*, granodioritic rocks, assoc. porphyry Cu deposit, K/Ar ages, 84M/1227
Pesticides, movement, interaction in vegetation cover-soil groundwater-rock system, 84M/1528; pollution of groundwater by, data acquisition, evaluation, 84M/1531; *Ireland*, impact on groundwater quality, 84M/1530
Petalite, crystal chem., stability, 84M/3182
Petarasite, *Canada, Quebec, Mont St Hilaire*, new data, 84M/0758
Petrogenetic processes, ident. using tr. element data covariance plots, 84M/2859
Petrology, dictionary of, 84M/1255
Petzite, *Japan, Hokkaido, Daté mine*, new examination, 84M/1901; *Yokozura mine*, occurrence, opt. props., paragenesis, 84M/1902
pH, decreases in settled oceanic calcite slurries as function of Pallman effect, discussion on previous paper, 84M/1753; reply, 84M/1754; further comment, 84M/1755
Pharmacosiderite, *Germany, Clara mine*, new find, 84M/4559; *Japan, Kyoto Pref., Mt. Gyoja*, occurrence, morphology, X-ray data, 84M/4596; *Yamaguchi Pref., Kitabira mine*, occurrence, X-ray, 84M/4604
Phase compositions, in system magnesia-R_2O_3-silicate, solid solubility of binary Al_2O_3, Fe_2O_3, Cr_2O_3 mixtures in periclase, 84M/0415
—, diagrams, isomolar, isostructural pseudoliquidus, for oceanic basalts, 84M/0333; low *T* field of liquid immiscibility in system K_2O-Al_2O_3-FeO-SiO_2, 84M/0360; for system MgO-SiO_2, 84M/0379; for system $CaCO_3$-$MgCO_3$-H_2O, 84M/0384; projected, use on algebraic, geometrical approach to multicomponent rock system compo-

Phase diagrams (*contd.*)
sition space, 84M/1544; system ZrO_2-CeO_2 below 1400°C, 84M/1584
—, equilibria, involving 2 liquids in system K_2O-Al_2O_3-FeO-SiO_2, re-assessment, 84M/0358; discussion, 84M/0359; in systems Li_2O-Na_2O-ZrO_2 and Li_2O-Al_2O_3-ZrO_2, 84M/0413; in system MgO-ZrO_2-Fe_2O_3, 84M/0414; in system Cu-S, 84M/0425; in system muscovite-paragonite-alkali feldspars-H_2O-CO_2, 84M/0471; calcic Cl-free scapolite, 84M/0476; analytical formulation, Gibb's method, 84M/1547; low- to medium-*T* in gas of solar compn., 84M/1574; in metamorphosed Fe-formations, 84M/2250; high-*P* of high magnesia basalts, 84M/3981; *Japan, Shikoku, Bessi area*, in highest grade zone of high-*P* intermediate type metamorphic belt, 84M/1143
—, relations in ternary system Fe-C-Sn, equilibrium relations, 84M/0399; wüstite, effects of *P*, *T* on, exptl. detn., 84M/0406; in systems MgO-Y_2O_3-ZrO_2 and CaO-MgO-ZrO_2, 84M/0409; stable, metastable in system ZrO_2-CaO, 84M/0412; and ordering in system erbia-hafnia, 84M/0416; in system Cu-Fe-Se between 500-700°C, initial study, 84M/0427; in system NaCl-KCl-H_2O, DTA of halite liquidus in NaCl-H_2O binary at $T > 450$°C, 84M/0445; in system Mn-Si-O, exptl., petr. study, 84M/0463; peridotites, asthenosphere petrological constraints, 84M/1570; compound in system Li_2O-Fe_2O_3-TiO_2, 84M/1580; in rhombohedral carbonates, 84M/1597; clinopyroxene, olivine, grunerite in high-grade metamorphic Fe-formations, 84M/1613; phlogopite-quartz and sanidine-quartz stability, crustal melting model, 84M/1622; orthorhombic carbonates, 84M/1411; in geol. systems, thermodynamic and geochem. consequences of non-ideal mixing in system H_2O-CO_2-NaCl, 84M/2713; in join forsterite-anorthite-diopside, effect of Cr, 84M/2715; in join kirschsteinite-fayalite, 84M/2720; $MgGeO_3$ polymorphs, 84M/2727; clinoptilolite, mordenite, analcite, albite, with increasing pH, *T*, Na ion concentration, 84M/2754; in system $CaCO_3$-$MgCO_3$, thermodynamic model, 84M/3997; liquidus on join anorthosite-forsterite-quartz, application to basalt petrogenesis, 84M/4006; in join grossular-pyrope-7·5% H_2O at 30 kbar, 84M/4007; in system MgO-FeO-SiO_2, implications for lower mantle min., chem., 84M/4014
—, systems, binary 6-phase, closed-net diagrams, study, 84M/2674; closed nets of $n + k$ ($k \geqslant 4$) multisystems, combination principle, 84M/2675; $n + k$ ($k \geqslant 4$) phase multisystem closed nets, structures, 84M/2676; closed-net diagrams of $n + k$ ($k \geqslant 3$) phase multisystems, props., 84M/2677; multisystems of $n + 3$, $n + 4$ phases, nets, 84M/2678
—, transitions, gillespite I-II, high-*P*, high-*T* cryst. study, 84M/0168; in $ZrTiO_4$, $ZrTiO_4$-SnO_2 solid solns., 84M/0408; melanothallite, at −190° −400°C, 84M/0421; $\beta \leftrightarrows \alpha'$ in Sr_2SiO_4, 84M/1360; X-ray, opt., ferroelasticity of β form, 84M/1361; natural ZnS minerals, high resolution EM study, discussion, 84M/1588; reply, 84M/1589; Cu_3BiS_3, between 25-300°C, 84M/2700; lithospheric, role in sea-floor flattening at old age, 84M/3299
Phenacite, class of pigments for vitreous enamel industry, 84M/2608
Phengite *v.* mica
Phenols, sorption, transformation on clay surfaces, 84M/0112
PHILIPPINES, limonitic-type laterites, comparison with American lateritic Ni ores, 84M/2561; *western Luzon*, volcanic arc system, application of discriminant technique for silica standardization, 84M/2909; *Luzon, Zambales Range*, ophiolite terrain, possibly not obducted sea floor, 84M/2090
PHILIPPINE SEA, La, Ce, Nd, V, Y, Zr, Nb distrib. in Mn nodules, 84M/4090
Phillipsite *v.* zeolites
Phlogopite *v.* mica
Phonolite, *France, Cantal volcano*, agpaitic, crystallization trends of pyroxenes from, 84M/1840; *Germany, Laacher See volcano*, tr. element abundancies, mineral/melt distrib. coefficients, 84M/2881; *Kenya, Nyambeni Range*, peralkaline in suite with basanite, lithology, origin, 84M/2056; *Kenya, Nyambeni Range*, peralkaline in suite to basanite, quantitative crystal fractionation model, 84M/3425
Phosgenite, *England, Cornwall, Newporth beach*, new locality for, 84M/2295; *Derbyshire*, occurrences, literature review, min., geochem., 84M/2291; *Italy, Sardinia, Monteponi*, fake specimens, 84M/3604
Phosphate, soil adsorption, effect of Fe-oxides on, 84M/1301; from fish-bone apatite, O-isotope variations in, 84M/2839; from phosphorite rocks, O-isotope variations in, 84M/2840; natural, solubility in sea-water, new data, 84M/4000
—, deposits, *Fiji, Vanua Vatu* and *Tuvuca Is.*, U disequilibrium dating, 84M/3666
—, minerals, determinative props., summary (book), 84M/3697; *England, Cornwall, Megiliggar Rocks*, occurrence, microprobe anals., 84M/1912
—, nodules *v.* nodules, phosphate
—, rock, future in USA and World economy, (book), 84M/1256; bibliog. of World resources, (book), 84M/3698
Phosphates, class of pigments for vitreous enamel industry, 84M/2608; absence of condensed in nature, possible reasons, 84M/2710; incorporation of divalent metals in β-$Ca_3(PO_4)_2$, 84M/2711; olivine-related $(Ni, Mg)_3(PO_4)_2$ solid solns., crystal structure, 84M/1403; low-*T* $NaCaPO_4$, crystal structure, 84M/1404; $KMgP_3O_9$, $KZnP_3O_9$, $KCaP_3O_9$, crystal synthesis, electro-optical, electrostrictive props., 84M/1602; *USSR, western Siberia*, bog-, vivianites, geol., reserves, 84M/0304; *Germany, Hagendorf*, secondary, 84M/0877; *Hagendorf Süd*, mining tonnages, graphs, 84M/0876; *USA, New Hampshire Palermo mine*, alphabetical listing, history of occurrence, 84M/3606; *Christmas Island*, calcined Ca-Al-phosphate fertilizers, reversion, 84M/2712
Phosphoferrite, *Germany, Hagendorf*, stepwise transformation to whitmoreite, 84M/0877
Phosphofibrite, *Germany, Clara mine*, new mineral, data, 84M/3245
Phosphonates, influence on growth of baryte crystals in suspension, 84M/0387
Phosphorescence, gemmological, X-ray unit for seeing, 84M/2773
Phosphorite, dissolution with ion-exchange reagent, anal. method, 84M/1245; O-isotope variations in phosphate of, 84M/2840; *USSR, Gornaya Shoriya*, stromatolitic, geol., lithology, 84M/0307; *USSR, Kuznetsk Alatar*, layered, palaeostruct. control in distribution, 84M/0306; *Soviet Far East*, distrib. patterns, 84M/0305; *Poland, Mielnik*, nodules from Late Cretaceous, genesis aspects, 84M/3922; *Iraq, Western Desert*, Campanian-Maastrichtian, 84M/1510; *Atlantic Ocean, South African continental margin*, Pleistocene, 84M/2615
Phosphorus, spectrophotometric detn. in silicates, single reagent method for, 84M/2417; *Bulgaria, Obročišta*, distrib. in minerals of Mn agglomerates, 84M/1687; *Canada, St Lawrence Estuary*, forms of and relations with Fe in suspended matter, 84M/3947
Phosphuranylite, luminescence at 4·2K, 84M/3573
Phyllite, *Portugal, Alijó-Sanfins area*, metamorphosed by granites, geochem. of chlorite, biotite from, 84M/3159; *India, Karnataka, North Kanara* and *Kumsi*, quartz-feldspathic with Mn-formations, petr, 84M/2267; *South Georgia, Cooper Bay-Wirik Bay area*, geol., 84M/1144
Phyllosilicates, polarization of H_2O molecules, relation to exchange cations, near IR study, 84M/1309
Pickeringite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Japan*, in Cretaceous sedimentary rocks, 84M/4573; *USA, west central Massachusetts*, formation by weathering of sulphidic schist, mechanism, 84M/1521
Picromerite, synthetic, thermal decompn., 84M/2704
Picroilmenite, *USSR, Malaya, Botuoba area*, intergrowths with diopside from diatremes, 84M/3505
Pigments, platelike in paint films, quantitative XRD anal., 84M/2386; for vitreous enamel industry, division into classes, 84M/2608
Pillow structures, *India, Rajasthan, Pipela area*, occurrence in amphibolites 84M/3549
Pimelite, series to kerolite, IR studies of Ni-bearing, 84M/1305
Pinnoite, crystal structure, location of H atoms, 84M/3834
Pitchblende, *Greenland, Narssaq, Narssarssuaq and Julianehåb*, veins in Proterozoic granite, 84M/0248; *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Switzerland, Affeier*, in Permocarboniferous strata, min., origin, 84M/0250; *Czechoslovakia, Novoveská Huta*, occurrence with brannerite, 84M/0836; *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882; *China, 114U deposit*, principal ore mineral, geol., 84M/1479; *Canada, Saskatchewan, McClean deposits*, ore mineral, geol., 84M/3898

itchstone, *Scotland, Isle of Eigg*, age, origin, isotopic evidence, 84M/0014
IXE *v.* Proton induced X-ray emission anal.
lacers *v.* sedimentary rocks
lagioclase *v.* feldspar
lagionite, microprobe data, 84M/3209; *Yugoslavia, Rujevac*, with twinnite, zinckenite, 84M/3210
lancheite, *USA, Arizona, New Cornelia mine*, description, 84M/4608; *Nugget Fraction mine*, new find, 84M/4570
lanets, planetary magnetism, recent developments in dynamo theory, 84M/1160; terrestrial, geol., geochem., new data, 84M/3077; giant, elemental and isotopic abundancies in atmospheres, cosmological implications, 84M/3080; invariance of min. props. in space, remote ident., 84M/3081; ^{182}Hf chronometer for early Solar System, 84M/3082; early differentiation, relevance of melt immiscibility in, 84M/3950; mineral differentiation in protoplanetary dust-gas cloud, 84M/4188; early Solar System aqueous activity, evidence from Orgueil meteorite, 84M/4206
–, asteroids, bombardment of Earth by, 84M/0753
–, Earth *v.* Earth
–, Jupiter, *Europa*, liquid water, active resurfacing, 84M/3086; *Io*, volcanic processes, comparison with Earth, Moon, Mars, Venus, 84M/3083; volcanic jets, differences from terrestrial, 84M/3410
–, Mars, smectites as soil analogues, simulated Viking biol. expts., 84M/3075; volcanic processes, comparison with Earth, Moon, Venus, 84M/3083; mantle compn., present constraints, 84M/4187
–, Mercury, *Martis Mare, Berlioz*, major volcano, 84M/3076
–, Saturn, long-lived particulate or gaseous structure in outer magnetosphere, 84M/3087; *Iapetus, Enceladus, Tethys, Hyperion*, crater numbers, geol. histories, 84M/3084
–, Venus, geol., geochem., new data on, 84M/3077; geol., 84M/3078; volcanic processes, comparison with Earth, Moon, Mars, 84M/3083
lants, V uptake, 84M/1519; *England, Avon, Avonmouth*, Cd, Zn, Pb concentrations near smelter, 84M/1518; *India, Udaipur, Zawar*, primary on mine tailings, 84M/1526
late tectonics, variation in oceanic magnetic anomaly amplitudes with sea-floor spreading rate, possible implications, 84M/1162; accretionary wedges, fluid model for shape of, 84M/1187; tectonic merging of crust in oceans, 84M/2080; viscosity structure of layered convecting mantle, 84M/3608; comparative subductology, 84M/3298; lithosphere-asthenosphere decoupling at spreading centres, obduction initiation, 84M/3445; subductions, slab heating, slab dehydration, continental growth, relations of, 84M/3446; subduction and elastic shear strain energy, discussion, 84M/3447; rolling mill effect in asthenosphere beneath oceanic spreading centres, 84M/4425; median valley, cause, 84M/4558; *England* and *Wales*, Late Precambrian–Early Palaeozoic evolution, 84M/4314; *Cyprus*, rotation of Cyprus microplate, 84M/2070; *Troodos massif*, significance in understanding constructive plate margin processes, 84M/2067; *northern Greece* and *Turkey*, anomalous motion for Anatolian crustal splinter, hypotheses for, 84M/1956; *Turkey, Sivrihisar-Balçikhisar*, palaeosubduction zone, min., 84M/3539; *southern Arabian Shield*, evolution, 84M/0991; *Asia*, explanatory notes to tectonic map, 84M/4330; *Himalayas* and *south Tibet*, relationship with regionally consistent stretching lineations, 84M/4328; *south east China*, relationship between tectonism/magmatism in Jurassic/Cretaceous, 84M/2031; *Japan*, in formation of Ryoke-Sanbagawa paired metamorphic belt, 84M/1142; *Africa*, Lufilian arc, microplate in collision zone of Congo and Kalahari cratons, 84M/3313; *north central Algeria*, 'halokinematics' and interplate tectonics, 84M/1195; *Zimbabwe* and *Zambia*, plate movements, relationship to crustal lineaments, shear zones, 84M/4324; *Namibia, Damara belt*, model, Rb/Sr geochron, tectonic evolution, 84M/1213; *Damara orogen*, Damara orogeny, subduction processes in alternative geodynamic models, 84M/3296; *Canada*, proposed Proterozoic sutures, geophys., plate tectonics implications, 84M/1197; *Yukon, Faro* and *Last Peak area*, eclogite occurrence, record of subduction at ancient North American western margin, 84M/2273; *USA, central* and *eastern Maine*, microplates in Palaeozoic, granitic plutonism as indicator, 84M/2944; *Colombia*, magmatic history of accretionary plate margin, 84M/4134; *north Chile*, subduction of Palaeozoic turbidite, resulting deformation, 84M/3466; *central Chile* and *Peru*, subduction geometry and magma genesis, 84M/3402; *Atlantic Ocean, Afar* and *Icelandic ridges*, evolution, comparisons, 84M/1189; *Pacific Ocean, Middle America Trench, Guatemala coast area*, convergent-extensional margin, new type, example, 84M/4619; *Nankai trough* and *Japan trench*, varied responses to subduction in forearcs, 84M/4434; *Tonga subduction zone*, deep seismicity, modes of deformation, 84M/4557
Platinum, dispersion trains, 84M/0672; in USGS Mn-nodule reference samples, detn. by fire assay-spectrographic method, 84M/0713; future in USA and World economy, (book), 84M/1256; precipitates in chloroplatinic acid-silica gel solution, 84M/2682; Pt-bearing ultramafic rocks, petrogenesis, 84M/3330; content in Cr-spinel, ilmenite, magnetite from layered complexes, 84M/4249; *Poland, Lubin area*, occurrence as organometallic compounds in shale, 84M/0256; *Sri Lanka, Muthurajawela peat deposit, and Mannar Island*, in mats, geochem., 84M/2973
–, group elements, recovery at lead-collection step by fire-assay, 84M/2426; *USSR, Polar Urals, Voikar-Syninsky ophiolite*, distrib., geochem., 84M/1688; *Turkey, Bati Kef chromite deposit*, distrib., 84M/3903; *Cyprus, Kokkinorotsos mine*, in chromitites, 84M/2074; *China, Sichuan Prov.*, in sulphide deposit, 84M/3858; *South Africa, Bushveld complex, Merensky unit*, geochem., unit development, 84M/1695
–, group minerals, in chromite of ophiolite complexes, occurrence, petr. significance, 84M/4424; *USSR, north east, Aldan Shield* and *Urals*, in ultramafic rocks, parageneses, 84M/0818; *Canada, Manitoba, Bird River sill*, inclusions in chromite, 84M/1872
Plattnerite, *USA, Arizona, Glove mine*, occurrence, 84M/4609
Pleistocene period, *Italy, Vrica section*, age of boundary with Pliocene, 84M/3649
–, rocks, *USA, east-central* and *southern*, volcanic ash layers, anals., correlations, ages, 84M/4418; *Mexico, Nayarit, Sanganguey volcano area*, alkalic volcanic, petr., 84M/4420
Pliocene period, *Italy, Vrica section*, age of boundary with Pleistocene, 84M/3649
–, rocks, *eastern England*, skeletal carbonates, temperate meteoric diagenesis, 84M/1069; *USA, east-central* and *southern*, volcanic ash layers, anals., correlations, ages, 84M/4418
Plumbogummite, *Germany, Clara mine*, new find, 84M/4559
Plumbomicrolite, *USSR, Kola Peninsula, West Keivy*, $1\frac{1}{8}''$ crystal, new find, 84M/4570
Plumbonacrite, formation from $(PbCO_3)_2 \cdot Pb(OH)_2$ at high-*T*, 84M/0436
Plutonic complexes, *Norway, Sørøy, Hustjord*, geol., 84M/3339
–, province, *Western Australia, Pilbara block, Shaw batholith*, 3500 m.y. old in Archaean craton, 84M/2035
–, rocks, derivation of normative compn. close to modal compn., method, 84M/1230; garnet-spinel geothermometer for, 84M/3329; *Sweden, Alnön complex*, palaeomagnetic props., 84M/2287; *east Finland*, late Archaean, Rb/Sr ages, isotopic geochem., 84M/3637; *Wales, Llŷn Peninsula, Sarn complex*, Rb/Sr whole rock ages, $\delta^{18}O$ values, geochem., 84M/3643; *Himalayas, Ladakh region, Transhimalaya, (Gangdese) belt*, U/Pb, Rb/Sr, study, 84M/3658; *Japan, Wada* and *Oguchi Rivers*, petr., 84M/3002; *USA, Alaska-Aleutian Range batholith*, Jurassic, chem. variation, polarity, 84M/2037; *California, Borrego Springs*, petr., 84M/3562; *Merced Peak quadrangle*, anal. data, 84M/0592; *Sierra National Forest*, geol., field guide, 84M/4341; *Andes Mountains, 26°-29°S*, O-isotope compns., 84M/2955; *Ascension Island*, inclusions in lavas, petr., 84M/2060
Plutonism, *Canada, Quebec, south-central Abitibi belt*, evolution, geotectonic model, 84M/1999; *USA, central* and *eastern Maine*, granitic, indicator of microplates in Palaeozoic, 84M/2944
Plutonium, partitioning between whitlockite/liquid, lab. study, 84M/2661; *Gulf of Mexico*, ocean transport/deposition, sediment evidence, 84M/0320
–, isotopes, in soil, measurements by L X-ray/γ-ray spectrometry, 84M/0311; coagulation of dissolved ^{239,240}Pu in estuaries, mixing expt. results, 84M/2630; ^{239,240}Pu, diagenesis and mobility in nearshore sediments, lab. study, 84M/3019; *USA, Narragansett Bay*, coastal mobility of fallout produced, model and real data, 84M/0321
Plutons, granitic, relationship with distrib. of U-deposits, 84M/2940; *Sweden, Norra Kärr*, alkalic, time of emplacement, 84M/3634; *Scotland, Southern Uplands*, genesis

Plutons (*contd.*)
of isotopically, chemically zoned, role of crustal melting, 84M/1717; *Ireland, Leinster batholith, Lugnaquillia*, geol., 84M/3347; *USSR, eastern Sayan*, alkalic and carbonatite, K/Ar age, new data, 84M/2347; *Czechoslovakia, Železné hory*, geochem. of granitic, gabbroic rocks, 84M/0563; *Yugoslavia, Cer*, granitic, ratio of easily soluble U to total U in, statistical study, 84M/0560; *West Carpathians, Vepor pluton*, structure, 84M/0970; *Japan, Kitakami Mtns.*, K, Rb, Sr, Th, U in Cretaceous, 84M/0997; *Canada, Atikokan, Eye-Dashwa pluton*, age of fractures, 84M/1218; *British Columbia, Ecstall pluton* and *Central Gneiss complex*, U/Pb dates, 84M/1219; *North West Territories, Blachford Lake*, petr., chem., 84M/2930; *Melville Penin.*, granitic, uraniferous, anomaly '60', 84M/2934; *Nova Scotia, Cape Breton Island*, granitoid, geochem., 84M/2928; *Ellison Lake*, cordierite-bearing monzogranitic intrusion, 84M/3393; *Ontario*, granitoid, strain patterns in crescentic, 84M/1973; *Kenora area*, Archaean granitoid, petrogenesis, 84M/4395; *Quebec Superior Province*, probable Archaean nepheline syenite, 84M/4394; *USA, Washington, Holden* and *Lucerne quadrangles*, relation of depth zones, textures, compn., emplacement, 84M/3394; *Antarctica, eastern Palmer Land*, granitic, deformation, 84M/1996
Pokrovskite, *USSR, Kazakhstan, Zlatogorskaya massif*, new mineral, 84M/4286
POLAND, Silesian-Cracovian Pb-Zn deposits, regularities of formation, 84M/1461; mineral deposits, annotated bibliog., (book), 84M/3692; Cu-bearing glauconite from Zechstein Cu deposits, 84M/4237; mineralization in metasomatic-hydrothermal alteration zones of Elk syenites, 84M/4477; *south*, Bochnia evaporites, geochem., new Br/Cl ratio detn., 84M/1750; *south east*, clay minerals of loesses, 84M/1322; *Bialystok, Tajno intrusion*, carbonatites, petr., min., 84M/0973; *Carpathian Mtns.*, manganiferous carbonate micronodules in flysch, origin, 84M/3477; min. crusts of surface weathering zone of sandstone tors, 84M/4451; *Cracow area, Niepołomice Forest*, forest geochem., effect of industrial pollutants, 84M/0318; *Cracow region, Rudno*, secondary minerals in melaphyres, 84M/0975; *Góry Świętokrzyskie Mtns, Skoki area*, Lower Triassic clay raw materials min., 84M/3768; *Kaczawskie Mtns., Stanisławów*, gorceixite from baryte-fluorite deposit, 84M/3224; *Kamienickie Range*, Sn mineralization in Izera schists, origin, 84M/1462; *Karkonosze Mtns., Jakuszyce area*, beryl-bearing pegmatite, 84M/3357; *Karkonsze* and *Strzegom granites*, albite in pegmatites, genesis, crystallization conditions, 84M/4242; *Kłodzko-Złoty Stok massif, Laski*, hornblende from pegmatite, 84M/1845; *Kosarzyska nappe*, tectonic evolution of Niedzica succession, 84M/3312; *Krzemianka*, hercynite-pleonaste in ilmenite-magnetite rocks, 84M/4253; haycockite, mooihoekite from titanomagnetite ore, anals., 84M/4262; *Lower Silesia, Lublin area*, precious metal bearing shale from Zechstein Cu deposits, 84M/0256; *Lublin Coal Basin*, crandallite group minerals in tonsteins, 84M/3223; *Lublin* and *Polkowice mines*, Pd minerals in Zechstein Cu deposits, 84M/3191; *Mazowsze-Lublin trough*, geochem. of B in Carboniferous sediments, 84M/1758; *Lower Silesia, Szklary*, Ni-bearing mins. with chlorite-vermiculite intermediate struct., 84M/0117; chrysoprase, chalcedony, opal, occurrence in serpentinite, geol., 84M/4051; *Lower Silesia, Turoszów*, sideronatrite, and copiapite, occurrence, props., 84M/1907; *Machow* and *Mikolajowice*, clays, reactions with molten $(NH_4)_2SO_4$, 84M/3755; *Michalowice*, druse minerals, formation conditions, 84M/4479; *Mielnik*, phosphorite nodules from Late Cretaceous, genesis aspects, 84M/3922; *Orawa-Nowy Targ basin*, Neogene clay deposits, ceramic props., 84M/1326; *Sienna synform*, gneisses, relationship to deformational stages in Śnieżnik massif, 84M/4491; *Strzegom massif*, crystallization of low- and moderate-*T* min. parageneses, phys., chem. conditions, 84M/4369; *Strzegom, Lisiec hill*, andalusite-tourmaline aplite, 84M/0974; *Sudete Mtns.*, garnet lherzolites, min. chem., 84M/4370; *Izera block*, proposed classification, nomenclature of gneisses, granites, 84M/4322; *Tarnobrzeg, Machów*, calcite from native S deposit, 84M/0868; *Wydrza deposits*, alteration products in Miocene gypsum rocks, min., petr., 84M/1082; *Upper Silesia, Rybnik coal basin*, occurrence of zeolites in variegated deposits, 84M/1109; *Waryński mine*, zincian dolomite, X-ray reflection intensities, exptl. values, 84M/0872; *Wroclaw*, turquoise, occurrence, 84M/1648; *Zalas*, albitization of plagioclase in Permian porphyries, 84M/0804; *Żary pericline*, postmagmatic processes in Lower Permian volcanic rocks, 84M/4478
Polarography, modern applications to inorganic anal., 84M/1247
Pollucite, thermodynamic props., 84M/0480; formation from $CsAlSiO_4$, implications for nuclear waste disposal, 84M/1541; *England, Devon, Meldon*, occurrence in aplite, 84M/4254
Polonium isotopes, *Japan, Funka Bay*, ^{210}Po, removal from surface water, biological effect, 84M/2626; *USA, Narragansett Bay*, coastal mobility of natural, model and real data, 84M/0321; *central* and *eastern Indian Ocean*, ^{210}Po, distrib., 84M/3024
Polybasite, *Channel Islands, Sark, Sark's Hope mine*, occurrence, microprobe anal., 84M/0853; *Germany, Clara mine*, occurrence, 84M/1176; occurrence, paragenesis, 84M/4562; *Romania, Blazna-Guset mining area*, in stratabound ore deposit, 84M/1463
Polydymite, *Bulgaria, Sv. Marina*, from polymetallic ore deposit, 84M/1487
Polyhalite, *Spain, Laguna de Tirez*, in playa lake sequence, 84M/1074; *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270
Polylithionite *v.* mica
Polymorphs, ilvaite, X-ray study, 84M/1364; leadhillite, susannite, macphersonite, IR absorption spectra, 84M/2456; silica, n.m.r. study, 84M/2530; olivine and spinel polymorphs of Mg_2SiO_4, structural, phys. props., computer simulation 84M/3793; $CaCO_3$, precipitation, explanation, 84M/2707; of $CaCO_3$, 84M/1596; dry ice II, new CO_2 polymorph, 84M/4003; crystalline o $KFeSiO_4$, synthesis, props., 84M/1632 $MgGeO_3$ with pyroxene structure, flu growth, phase relations, crystal structure 84M/2727; SiO_2, relationship between R density, 84M/4526; *central Alps*, white K mica, regional distrib., 84M/1848
Polytypes, linear carbon forms (carbynes unified structural approach, 84M/2535 chlorite, OD interpretation, polytype sym bolism, 84M/1372; classification, X-ra ident. of trioctahedral polytypes, 84M 1373; CdI_2, structures of 20 new polytypes 84M/1408; $2M_1$ of trioctahedral micas revised XRD powder data, 84M/4235; o pennantite, occurrences, props., 84M 1854; SiC, conditions for direct structur imaging, erratum, 84M/2536; ZnS, nev polytypes, of family 18*L* 84M/1393; i natural ZnS minerals, high resolution EM study, discussion, 84M/1588; reply, 84M 1589; ZnS, mechanism of formation effects of Cd addition, 84M/3967
Polytypism, and factors determining spinel loid structure stability, 84M/2494; absenc in ZrS_2 single crystals, comparison wit SnS_2, PbI_2, CdI_2, 84M/1392
PONAPE ISLAND, alkali basalts, petr chem., age, isotopic compn., 84M/4436
Porphyroblasts, zoned plagioclase in mylon ite, growth, 84M/0803; *Spain, Sierra Alh milla*, plagioclase, growth, relation to de formation, 84M/2262; *Japan, centra Shikoku*, albite, from Sanbagawa schist zonal structure, 84M/0802; *USA, Nort Carolina, Great Smoky Mtns.*, zoned meta morphic monazite, anals., 84M/4281
Porphyry, *USSR, Rudnya Ososhnya*, quartz formation conditions, 84M/0978; *Poland Zalas*, Permian, albitization of plagioclas in, 84M/0804; *New Zealand, Murihiku terrane*, K/Ar age, 84M/0037
Portlandite, crystal habit in cement pastes 84M/0382
PORTUGAL, mineral waters, geochem classification, 84M/3011; geochem., min surveys for W, Sn, 84M/3037; *Alijó-Sanfin area* chlorite, biotite from phyllites meta morphosed by granites, geochem., 84M 3159; *Beja ophiolitic massif*, dyke complex anals., 84M/3455; *Braga area*, montmoril lonite, new Portuguese occurrence, props. 84M/2481; *Caramulo, Guardão region*, K feldspars from granitic rocks, petr., XRD powder patterns, 84M/3174; 2V angle and structure, relationship, 84M/3175; K-feld spars, triclinicity index and ordering index correlation, 84M/3176; *Chaves* and *S Pedro do Sol*, thermal reservoirs, temp. 84M/3012; *Lisbon volcanic complex*, volcan ic tuffs, tr., element geochem., 84M/2879 *Moncorvo Fe deposit*, sample anal., detailed scheme, 84M/3066; *Mondim de Basto area* geol., geochem. prospecting, 84M/3036 *Neves Corvo*, Cu, Zn, Ag exhalative de posits, geol. setting, 84M/2565; *Palhero de Tolosa, Nisa* and *Tarabau*, U deposits excursion details, 84M/1458; *Panasqueira* panasqueiraite, new mineral, 84M/0891 *Pazes gabbro*, sill-like intrusion, anals. comparison with Beja gabbros, 84M/3456 *Santa Comba Dão* granites, detn. of geotec

PORTUGAL (*contd.*)
nical parameters from weathering degree, 84M/3582; *Sines alkaline complex*, Rb/Sr geochron., 84M/3646; *Tarouca*, scheelite deposit, lithostratigraphy, tectonics, metamorphism, 84M/2587; *east Trás-os-Montes area*, attapulgite in sedimentary deposits, origin, 84M/3757; *Viseu, Sátão*, granite with mylonitized border, texture, min., 84M/3352
—, MADEIRA, detn. of Ni, Cu, Zn, Zr, Y, Sr, Rb in volcanic rocks, 84M/2880
Posnjakite, *Germany, Clara mine*, new find, 84M/4559; *Hagendorf*, secondary, description, 84M/0877; *Austria, Rauris Valley*, in Au tailings, 84M/3607
Potash deposits, *Canada, south New Brunswick*, geol., 84M/3928
Potassic rocks, micas from, comparison with Ti-phlogopite from minette, 84M/4232
Potassium, future in USA and World economy, (book), 84M/1256; fixation by clay minerals during hydrothermal treatment, 84M/1296; in pelecypod shells, AAS anal., differences between melanic/normal shells, 84M/1745; inter-diffusion in alkali feldspars, diffusion couple expts., 84M/2662; uptake by calcite, 84M/2705; detn. in fossil gastropods, bivalves, 84M/2838; content in mid ocean ridge basalt glasses, K/Rb, K/U ratios in mantle, 84M/4095; *Norway, Svalbard, Janusfjellet formation*, distrib. in black shales, 84M/2964; *Japan, Kitakami Mtns.*, in Cretaceous plutons, 84M/0997; *USA, Virginia, Culpeper basin* and *vicinity*, regional values, total-count aeroradiometric contour map, 84M/1658
—, compounds, Au solubility in KCl, KF, K_2CO_3, $KHCO_3$, at P = 1000 kg/cm^2, 84M/2681; $KFeSiO_4$, 3 crystalline polymorphs, synthesis, props., 84M/1632; $KMgP_3O_9$, $KZnP_3O_9$, $KCaP_3O_9$, crystal synthesis, electro-optical, electrostrictive props., 84M/1602; K_2MnO_4, cryst. struct., 84M/0185; K_2O, detn., anal. method, 84M/0070; $K_2Si^{6+}Si^{4+}O_9$, cryst. structure, 84M/0169
powdered materials, material variation in, estimation of, 84M/0715
powellite, *Czechoslovakia, Černá Voda quary*, replacing molybdenite, props., 84M/1881
power analysis, application to hypothesis testing among petrographic point-count data, statistical note, 84M/3673
praeseodymium compounds, PrO_2, thermal expansion data, 84M/4537
prase opal *v.* opal
precambrian fossils *v.* fossils
—, grabens *v.* grabens
—, iron formations *v.* iron formations
—, iron deposits *v.* iron deposits
—, oceans, S-isotope partitioning in, evidence from Proterozoic anhydrite, 84M/2834
—, ore deposits, possible microbial pathways in formation, 84M/2778
—, Era, oceanic crust in, Sr-isotope evidence, 84M/0512; atmospheric O and banded Fe formations, 84M/2781; natural nuclear reactors, ionizing radiation in, 84M/2789; *European USSR*, Late Precambrian geochron., 84M/0020
—, rocks, *Greenland*, shield area, evolution, 84M/0906; *south west*, Au mineralization in, 84M/2564; *north east Spitsbergen*, dolomite crystals, effect of glacial transport, neomorphism on sizes, 84M/3470; *south Norway*, organic-rich limestones, sedimentation, 84M/4140; *Finnmark, Masi area*, stratigraphy, 84M/1979; *Rogaland/Vest-Agder*, polyphase Caledonian metamorphism in, 84M/2254; *north Sweden*, geol., tectonic evolution, possible basement reactivation, 84M/4308; *Scotland, Ardnish*, pegmatite, structural dating, relevence to status of 'Morarian orogeny', 84M/1121; *Denmark, Bornholm, in situ* thermal conductivity measurements, 84M/1168; *Romania, Blazna-Guset mining area*, stratabound Pb-Zn-pyrite deposits in, 84M/1463; *Jordan, Wadi Araba area*, basement, age detmns., 84M/0023; *southern Arabian Shield*, volcanic, plutonic, Rb/Sr geochron., 84M/0991; *India*, stratigraphy, geochron., synopsis, 84M/0942; granitic, radioactive heat generation in, 84M/3590; *Chakradharpur complex*, geochem., 84M/4111; *Orissa, Surgutaria*, siliciclastic, petr., 84M/1093; *China, Yenshan region*, Rb/Sr geochron., 84M/3659; *Australia, Strangeways* and *Fraser Ranges*, ^{18}O depletion in granulites, 84M/4155; *Algeria, Ahaggar area, Pharusian chain*, stratigraphy, magmatism, place in progressive regional metamorphism of African Upper Precambrian, 84M/3543; *Mali, Gourma*, pedogenic, diagenetic fabrics, 84M/2215; *South Africa, Witwatersrand*, U and Au bearing quartz-pebble conglomerates, genesis, 84M/0261; *North America*, palaeomagnetism, look at data base, 84M/1161; *Canada, Hudson Bay, Belcher Islands*, dolostone sequence, evolution, dolomitization regimes, 84M/1102; *Strait of Bell Isle area*, geol., 84M/0947; *Elliot Lake area* and *South Africa, Pongola Basin*, quartz-pebble conglomerates, U-Ti phases from, 84M/3860; *North West Territories, Hornby Bay group*, aeolian, implications for from Proterozoic aeolian quartz arenites, 84M/2223; *Montana, south eastern Beartooth Mtns.*, geochem., Rb/Sr geochron., 84M/2005; *Beartooth Mtns., Broadwater River area*, min., petr., of metasedimentary xenoliths in granitic gneisses, 84M/2003; *Beartooth Mtns., South Snowy block*, biotite granodiorite, prelim. zircon U/Pb dating, 84M/2004; *Montana* and *Wyoming, Beartooth Mtns.*, geol., 84M/1260; geol., 84M/2002; *North Carolina, Blue Ridge province*, sediments, compositional layering in, origin, significance, 84M/4342; *north west Utah*, quartzite, Miocene K/Ar age for metamorphic muscovite from, 84M/1225; *Wisconsin, Eau Claire River complex*, metamorphosed mafic intrusion, 84M/4515; *Mexico, Oaxaca*, evaporites, in granulite complex, evidence, 84M/4343; *south east coast of South America* and *southern west African coast*, geol. comparisons, 84M/4327; *Antarctica, Enderby Land, Napier complex*, gneisses, geochem., 84M/3004
—, terrains, *Canada, Wisconsin, southwest Marathan Co.*, gravity, petrological study, 84M/3589
Prehnite, coarse-grained, crystallization in hydrothermal expts., petr. implications, 84M/0466; *Spain, Murcia, Caravaca*, from hydrothermal alteration of ophiolites. 84M/3172
—, -epidote equilibria, petrologic applications, 84M/1618
Preisingerite, *Germany, Odsbach bei Oberkirch*, new discovery, 84M/2299
Priderite, possible use in containing radioactive Cs, 84M/0324; class of pigments for vitreous enamel industry, 84M/2608
Prosopite, gemmological props., ident., discovery, 84M/1647
Proteins, sequences, evidence for evolutionary connections of biol. kingdoms, 84M/3053
Protoactinium isotopes, *Panama* and *Guatemala Basins*, ^{231}Pa removal at ocean margins, 84M/2989
Protolithionite *v.* mica, zinnwaldite
Proton induced X-ray emission (PIXE), for *in situ* tr. element microanal., 84M/0077; specimen backings for, 84M/2408
Psammites, *Norway, Western Gneiss region*, Rb/Sr study, 84M/0007
Pseudomorphs, coffinite after ningyoite, 84M/4212; *USSR, Kola Peninsula, Mt Alluayv*, makatite after natrosilite, possible cellular pseudomorphs, 84M/4247; *Italy, Phlegraean Fields, Procida Island*, stevensite after periclase, 84M/2483; *South Australia, Arkaroola*, jarosite after pyrite containing sulphur crystals, kinetics, 84M/1903; *Tasmania, Kara mine*, mpororite and anthoinite after scheelite, 84M/4255; *Tanzania, Kerimasi Volcano*, calcite after nyerereite in natrocarbonatite, 84M/2059; *USA, Arizona, Camp Verde*, of aragonite, calcite, gypsum after glauberite, 84M/2322; *Malpais Hill*, ramsdellite after groutite, 84M/2325; *New Water Mtns.*, chrysocolla after (?)azurite, (?)malachite, 84M/2327; *Ray mine*, chrysocolla after unknown mineral, 84M/4610; *Mexico, Querétaro*, limonite after hornblende as inclusions in opal, 84M/0489
Pseudorutile, relationship to goethite-rutile intergrowth structures, 84M/2692
Pseudotachylite, *Sweden, Köli nappes*, assoc. with thrusting, 84M/1118
Pumice, mixed eruptions, field characteristics, 84M/1044; Fe distrib. in various grades, 84M/2533; *Scotland, Ballantrae complex*, highly vesiculated in ophiolite complex, 84M/4406; *Italy, Lipari Islands*, rhyolitic, Fe distrib. in hydrothermally synthesised zeolites from, 84M/1628
Pumpellyite, coarse-grained, crystallization in hydrothermal expts., petr. implications, 84M/0466; Fe-bearing, synthesis, stability relations with epidote, 84M/1611; *Italy, Monte Alpe*, intergrowth with surssasite, 84M/3795; *Calabria, Maritime Alps, Ligurian* and *Lucanian Appenines*, in low-grade metamorphic rocks, 84M/3132; *Liguria, Bracco ophiolites*, pumpellyite-(Mn^{2+}), occurrence, min., chem., 84M/3131
—, bearing rocks, *Sweden, Dala region*, description, extent of rock alteration as control of pumpellyite compn., 84M/1834
Pyknolites, proposed structural class of framework silicates, 84M/1381
Pyrargyrite, *Channel Islands, Sark, Sark's Hope mine*, occurrence, microprobe anal., 84M/0853; *Australia, Queensland, Gilberton area*, with Au mineralization, 84M/2579;

Pyrargyrite (*contd.*)
Mexico, Zacatecas, Santo Niño vein, crystals to $2\frac{3}{4}$", description, 84M/4613
PYRENEES MOUNTAINS, argutite, carboirite, new minerals, data, 84M/3228; crustal splitting and emplacement of lherzolites, granulites, 84M/4317; *Massif of Agly, Ansignan granite*, U/Pb age of granite formation, 84M/0016; *v.* also *Spain, Portugal*
Pyrite, palaeodosimetric props., 84M/0002; texture, isotopic compn., availability of Fe, 84M/0422; use in Indian medicine, 84M/1527; transformations in pulverized coal during ignition, 84M/2671; stoichiometry and evolution of terrestrial, oceanic, 84M/2828; oxidation at pH 6-9 and 30°C, metastable S oxyanion formation, 84M/3991; rates of reaction with ferric Fe at pH 2, 84M/3992; deformation, 84M/4538; *England, Cornwall, Fal Estuary*, diagenetic in sediments, 84M/2967; *Ireland, Co. Tipperary, Silvermines deposits*, hydrothermal chimneys, significance, 84M/1453; *USSR, Altai-Sayan folded region*, from Au ore, radiogeochem. characteristics, 84M/0525; *Belgium, Daverdisse*, in quartzite, quartz veins, 84M/1483; *Denmark, Skjernå delta*, formation in swamp sediments, 84M/0598; *Germany, Mullenbach*, in U deposit, paragenesis, 84M/1485; *Austria, Kreuzeck-gruppe*, S-isotope values, 84M/2827; *Italy, southern Tuscany*, deposits, S-isotope study, 84M/1673; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Smolnik*, pyrite-Cu ore minerals, zoning of tr. elements in, 84M/0527; *Vtáčnik Mtns.*, Au content, data, 84M/0526; *Žiar Mtns.*, occurrence, 84M/0253; *Zlaté Hory*, formation from pyrrhotine, genetic, geochem. aspects, 84M/1892; *Bulgaria*, Au bearing in 'Elacite' porphyry Cu deposit, 84M/0819; *Medet Mo-Cu deposit*, Co-, Ni-, inclusions in chalcopyrite, 84M/0846; *India, Ambamata-Deri area*, from polymetallic deposit, tr. elemenelement content, habit, texture, 84M/0528; *Bihar, Amjhore*, geochem., 84M/2824; *Kerala, Quilon limestone*, early diagenetic, significance, genesis, 84M/1094; *Sri Lanka, Meetiyagoda*, occurrence, 84M/0502; *Japan, Kii Peninsula*, in granitic rocks, paragenesis, 84M/1891; *South Australia, Arkaroola*, unusual sulphur-jarosite pseudomorphs, kinetics, 84M/1903; *South Africa, Witwatersrand*, min, and fluid inclusions, morphology, tr. element content, influence implications for metamorphism, 84M/0844; *western Canada* and *Australia, Mount Isa*, metamorphism, deformation and recrystallization, 84M/0845; *USA, Arizona, Magma mine*, cubic, octahedral, pyritohedral crystals, 84M/2321; *Florida, Everglades*, origin in coal, 84M/2983; *New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Mexico, Querétaro*, possible inclusions in opal, 84M/0489; *Atlantic Ocean, Falkland plateau*, authigenic with gypsum, glauconite in Miocene biogenic ooze, 84M/2201; *Pacific Ocean, Costa Rica rift*, secondary in basalts, 84M/2186
—, deposits, Cu-bearing, economic value, scientific significance, 84M/3871; *China, Gansu Prov., Baiyinchang*, genesis, discussion, 84M/3888
Pyritization, *USA, Delaware Bay*, in salt marshes, 84M/2982
Pyroaurite, *USSR, Vozhminskii massif*, fibrous veins in serpentine, 84M/3221; *Japan, Kumamoto Pref., Mashiki town*, mixed with brugnatellite, coalingite, occurrence, X-ray data, 84M/4590
—, like minerals, synthetic, preparation, props., 84M/1600
Pryobelonite, *USA, New Jersey, Franklin*, occurrence, XRD, anal., paragenesis, 84M/1889
Pyrochlore, class of pigments for vitreous enamel industry, 84M/2608
Pyroclastic deposits, *Japan, central Hokkaido*, INAA study, 84M/2903; *New Zealand, Bay of Plenty, Mayor Island*, description, 84M/1032; *USA, Oregon, Leone Lake*, reinterpretation of sediments as pyroclastic surge deposit, tectonic significance, 84M/4417
—, flows, role of fluidization in emplacement, exptl. results, interpretation, 84M/4403
—, rocks, from same system, geochem. integral, unique, 84M/1713; (book), 84M/3699; *Germany, Habichtswald Mtn. area*, Miocene basaltic, petr., geochem., 84M/0557; *Zaïre, Nyamulagira volcano*, from eruption of Jan-Feb 1980 forming new cone, nature of, 84M/2057
Pyrochroite, *Solomon Islands*, precipitation in exhalative environment, 84M/1880
Pyrolite, mineral assemblages in, theoretical computation, 84M/1566
Pyrolusite, oxidation of arsenite by, kinetics, 84M/1533; *Solomon Islands*, formation in exhalative environment, 84M/1880
Pyrolysis, application to basin studies, 84M/0683
Pyromorphite, *England, Cornwall, Greystone quarry*, with hemimorphite, aurichalcite, 84M/2294; *Germany, Ramsbeck*, occurrence, 84M/4560; *USA, Idaho, Bunker Hill mine*, occurrence, description, 84M/2316
Pyrophyllite, beam damage in the electron microscope, 84M/2725
Pyrostilpnite, *Germany, Clara mine*, occurrence, paragenesis, 84M/4562
Pyroxenes, synthetic vanadium $Na_xLi_{2-x}V_2O_6$, crystal struct., 84M/0165; phase transformations, analogies with amphibole microstructures, 84M/0166; melting in system pyroxene-apatite-villiaumite, petrological significance, 84M/0392; 'quadrilateral' pyroxene thermometry, critical review, 84M/0453; weathering, soil grain observations, 84M/0462; nomenclature for minor substitutions, proposals, 84M/0778; distrib. of Mg, Fe between ortho-, clino- in metamorphic rocks, 84M/0780; Ca-Tschermak's, crystalline and glassy, Raman study, 84M/2527; exsolution and Fe^{2+}-Mg order/disorder in, 84M/2638; 2-pyroxene geothermometer, problems, 84M/2645; in Zaisho pallasite, 84M/3108; transformation to pyroxenoids, mechanism, 84M/3805; two-pyroxene geothermometry, 84M/4021; two-pyroxene geothermometry of mantle lherzolites, new method, 84M/4022; *Norway, Nybö eclogite*, crystal structure refinement, 84M/1839; *Finland, Koillismaa igneous complex*, microprobe anals., 84M/4353; *USSR, Azov area, Chernigovo carbonatite complex*, peculiarities of chem. compn., crystal morphology, 84M/1846; *Kolvits* and *Kalar Massifs*, in anorthosite-mangerite, 84M/3141; *France, Cantal volcano*, from agpaitic phonolites, crystallization trends, 84M/1840; *Austria, Kottaum-Arzberg mine*, magnetite-bearing rock, opt., X-ray, chem. studies, 84M/2593; *Italy, Gargano, Punta delle Pietre Nere*, from alkaline subvolcanites, crystallization trends, 84M/3139; *Mt. Vesuvius*, new find, 84M/4566; *Czechoslovakia, Bory*, lamellar, petrogenetic significance, 84M/1838; *Greece, Lesbos*, zoned from shoshonitic lavas, inferences for shoshonite petrogenesis, 84M/4219; *Japan, Kagoshima Pref., Katadomari*, in andesite flow, effects of crystal growth rate on compn., 84M/1000; *Uganda, Australia, Antarctica*, from leucite-bearing and related assemblages, chem. significance, 84M/3140; *St. Vincent, Soufrière*, from 1979 nuées ardentes, inclusions in, 84M/4218
—, acmite-jadeite series, synthesis, 84M/0459
—, aegirine, Fe in, opt. and Mössbauer spectroscopy, 84M/0785
—, aegirine-augite, *Pacific Ocean, Costa Rica rift*, occurrence with melanite, 84M/2185
—, augite, dissolution at pH4, near-standard *T, P*, 84M/4005; *Mongolia*, from alkaline basalts, structure, 84M/0782
—, clino-, synthetic in join $CaFe^{3+}AlSiO_6$-$CaTiAl_2O_6$, ^{57}Fe Mössbauer study, 84M/0164; sector zoned, lab. growth in system $CaMgSi_2O_6$-$CaTiAl_2O_6$, 84M/1614; Fe rich, interdiffusion coefficients parallel to *c*-axis, calculation from microstructures, 84M/1615; diopside-hedenbergite series, stability in H_2O-CO_2 mixtures, 84M/2729; 'enstatite IV', new phase, basis of new series of superstructures, 84M/3801; structure of Sc series of 'enstatite IV' 84M/3802; Ca-rich on join $CaMgSi_2O_6$-$Mg_2Si_2O_6$, structures, 84M/3803; intergrowth with pyroxenoids, chain periodicity faults in, pyroxene, 84M/3804; $Fe^{2+} \rightleftharpoons Mg^{2+}$, $TiAl_2 \rightleftharpoons MgSi$ exchange reactions with silicate melts, 84M/4019; along join $CaMgSi_2O_6$-$SrMgSi_2O_6$, Ca-Sr substitution in, 84M/4020; with melilite, olivine in lavas, partitioning of Fe, Mg between, 84M/4024; *Greenland, Motzfeldt centre*, from nepheline-syenites, microprobe anals., 84M/1841; *USSR, Noril'sk region*, from volcanic traps, microprobe anals., 84M/0783; *France, Massif Central, Bas-Limousin*, amphibolitization in eclogite, 84M/3513; *Italy, Vulsini, Montefiascone area*, in magmatic K-alkaline suite, chem. evolution, 84M/3138; *Phlegrean Fields*, chem. variations in calcian, implications for petrogenetic processes in magma chambers, 84M/0781; *Mt. Vesuvius*, volcanic ejecta, petr., 84M/4409; *Canada, Ontario, Alexo*, spinifex flow, comparison with olivine flow, 84M/2041
—, diopside, Czochralski grown crystals, 84M/0456; O-isotope fractionation between water/diopside, geothermometrical use, 84M/0520; lattice dynamics, 84M/0163; liquid and glass, heats of fusion, enthalpies, 84M/1559; system with anorthite, viscosity-*T* relationships at 1 atm

Pyroxenes (*contd.*)
84M/1563; system with anorthite, crystallization kinetics, nucleation delay, 84M/1564; thermodynamics of melting, glass transitions, props. of amorphous phases, 84M/4010; *Finland*, chrome, occurrences, 84M/4055; *USSR*, *Malaya Botnoba area*, intergrowths with picroilmenite from diatremes, 84M/3505; *Germany*, *Bavaria*, *Acherwiese*, occurrence, 84M/3599; *Japan*, *Mie Pref.*, *Mie mine*, occurrence, X-ray data, 84M/4598; *South Africa*, *Orange Free State*, *Monastery pipe*, coherent intergrowth in subcalcic megacryst, 84M/0162
—, enstatite, high-resolution TEM study, 84M/0775; clino-, from a boninite, EM study, comparison with meteoritic, 84M/0741; whiskers, platelets in interplanetary dust, evidence of vapour phase growth, 84M/3085; Li-Sc-bearing protoenstatite, single crystal elastic props., comparison with orthoenstatite, 84M/3570; polysynthetically-twinned structures, 84M/3799; dissolution at pH4, near-standard *T*, *P*, 84M/4005; *East Africa*, gem quality, similarity to new Tanzanian peridot, anals., comparison, 84M/0492; *Brazil*, *Paraná*, *Tibagi River deposits*, oriented inclusions in diamond, 84M/4248
—, fassaite, *Japan*, *Seto Inland sea*, *Shisakajima*, titanian, occurrence, geol., chem., anals., 84M/0784
—, hedenbergite, O-isotope fractionations between water/hedenbergite, geothermometrical use, 84M/0520; *Japan*, *Shiga Pref.*, *Ishibe mine*, manganoan, occurrence, anals., props., 84M/4221
—, hypersthene, Fourier-transform IR shifts at high-*P*, prelim. data, 84M/3800
—, jadeite, activities in disordered, short-range ordered, exptl. detn., 84M/0458; O-isotope fractionations between water/jadeite, geothermometrical use, 84M/0520; *Svalbard*, *southern Oscar II Land*, xenoblastic crystals and radiating masses, 84M/3142; *Burma*, *Mogok*, chrome-, component in Maw-sit-sit, first terrestrial occurrence of ureyite, 84M/0828; *Japan*, *Niigata Pref.*, *Odokoro River*, paragenesis, X-ray data, 84M/4601; *Ohmi* and *Shibukawa areas*, coexisting with omphacite, miscibility gap between, 84M/4220
—, jadeite-acmite series, synthesis, 84M/0459
—, jervisite, *Italy*, *Baveno*, type locality, description, 84M/2310
—, johannsenite, inversion boundary with bustamite, exptl. detn., 84M/4023
—, omphacite *Sweden*, *Seve nappes*, in high-*T* eclogite, petrofabrics, microstructures, 84M/3514; *Japan*, *Ohmi* and *Shibukawa areas*, coexisting with jadeite, miscibility gap between, 84M/4220
—, ortho-, phase relations in high-grade metamorphic Fe-formations, 84M/1613; Mg-Fe^{2+} order/disorder, petrogenetic application to rock cooling history, 84M/1837; $(Fe^{2+}, Mg)SiO_3$, thermochem., 84M/2646; equilibria involving, thermodynamic anals., 84M/2716; in system $Mg_2Si_2O_6$-$MgAl_2SiO_6$-$MgCaSi_2O_6$, synthesis, unit cell parameters, 84M/2728; in equilibrium with spinel, forsterite, reversed Al_2O_3 contents in, 84M/4013; *Finland*, *Lapland*, aluminous, Mössbauer line broadening, evidence for next nearest neighbours interactions, short-range order, 84M/2516; *West Ivory Coast*, weathering under lateritic conditions, 84M/0133
—, salite, Fe in aegirine-salites, opt. and Mössbauer spectroscopy, 84M/0785; *Nigeria*, *Wamba Plateau State*, in pyroxenite from migmatite complex, chem. anals., 84M/1133
Pyroxenite, ilmenite from, geochem. features, 84M/0826; *France*, *Ariège*, *Bestiac*, assoc. with spinel lherzolites, 84M/3350; *Italy*, *Ultimo Valley*, *Seefeld Alm*, lenses in great peridotite, possible high-*T* origin, 84M/3520; *South Africa*, *De Bruyn* and *Martin mine*, in kimberlite, anal, 84M/4382
Pyroxenoids, structural chem., comment, 84M/2517; intergrowth with clinopyroxenes, 84M/3804; transformations to pyroxenes and inversions to other pyroxenoids, mechanism, 84M/3805
Pyroxferroite, *Japan*, *Kyoto Pref.*, *Isanago mine*, occurrence, morphology, X-ray data, 84M/4592
Pyroxmangite, *USSR*, *Tuva*, *Khadyn Fe deposit*, Fe-rich, opt., XRD, anals., 84M/4222; *Japan*, *Tamba belt Mn mines*, XRD data, 84M/4223
Pyrrhotite, intermediate pseudohexagonal $Fe_{11}S_{12}$, superstructure symmetry, 84M/0190; high-resolution TEM study, 84M/0775; thermodynamic mixing props., 84M/1590; *Sweden*, *Falun mine* and *Skellefte dist.*, ores with chalcopyrite, heating expts., stability of intermediate solid soln., 84M/2699; *Germany*, *Clara mine*, occurrence, paragenesis, 84M/4562; *Austria*, *Lienz area*, enrichment in gneisses, geol., 84M/2567; *Kreuzeckgruppe*, S-isotope values, 84M/2827; *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254; *Zlaté Hory*, alteration to pyrite, genetic, geochem. aspects, 84M/1892; *Greece*, *Macedonia*, *Koronuda*, in ore deposit, 84M/2595; *Cyprus*, *Limassol Forest*, monoclinic, in serptentinite, 84M/2075; *Sri Lanka*, cause of chatoyancy in scapolite, 84M/0496; cause of asterism in scapolite gemstone, 84M/1645; *Japan*, *Kii Peninsula*, in granitic rocks, paragenesis, 84M/1891; *Pacific Ocean*, *Costa Rica rift*, in basalts, 84M/2186
—, -pentlandite, *Western Australia*, *Mount Keith*, replacement by tochilinite, magnetite, magnesite in serpentinites, texture interpretation, 84M/0848; *Canada*, *Ontario*, *Strathcona* and *Copper Cliff mines*, ore textures, kinetics, mechanisms of pentlandite exsolution, 84M/0847

Quarrying, *Italy*, Carrara marble, Roman travertine, use of diamond wire, 84M/1239
Quartz, with varying crystallinity, bacterial breakdown, 84M/0361; solubility in aqueous NaCl soln., calculation, 84M/0366; α-β transition, disordering in high-*T* β phase, 84M/0473; plate-like defects in synthesis crystal, 84M/0474; solubility measurements, detn. of *P*-sensitive geothermometer from, 84M/0475; brownish-green cat's-eye, gem trade lab. notes, 84M/0498; formed from ageing of opal, 84M/1072; effect of *T*, *P* on structure, 84M/1346; segregation from host rock as factor in Au-SiO_2 vein genesis, 84M/1421; solubility in fluid mixtures, application of extraction-quench technique for detn., 84M/1557; melting, transformation to cristobalite, effect of isomorphous substitutions, 84M/1626; loss in free energy after grinding in terms of *T*, time of heating, 84M/1627; synthetic gemstone grade, coloration of, 84M/1642; growth in $CaSO_4$ brines, 84M/1862; new hole centres in natural, 84M/2529; natural of different genesis, structural state, impurity diffusion in, 84M/3814; application of electron spin spectroscopy to paramagnetic defects, 84M/3815; synthetic, thermally and mechanically induced shape changes in fluid inclusions, 84M/3956; experimentally shock-loaded powders, deformation, X-ray line broadening studies, 84M/3960; exposure to shock waves, planar elements in, 84M/3961; reddish-brown gem quality, description, 84M/4056; *USSR*, *Ukraine*, *Boltysh Crater*, new planar element orientations in shocked, 84M/0743; *Korostyshev* and *Novograd-Volyn'*, from undifferentiated pegmatites, inclusions in, 84M/3880; *Poland*, *Michalowice*, druses, formation conditions, 84M/4479; *Strzegom massif*, pegmatitic, fluid inclusion study, 84M/4369; *Germany*, *Saarland*, detrital, growth of authigenic fibrous sericite whiskers into, 84M/1073; *Italy*, *Elba*, crystals, development of characteristic form, 84M/2312; *Bulgaria*, *Mogilata Pb-Zn deposit*, epitaxic overgrowths on calcite, origin of peculiar morphology, 84M/0806; *Rosen ore field*, thermometry, 84M/1417; *South Australia*, Late Tertiary micro- to crypto-crystalline ('grey billy'), age, origin, 84M/3488; *Western Australia*, *Golden Grove Cu-Zn deposit*, 'eyes', development in intrusive/extrusive rocks, 84M/1498; *USA*, *New Hampshire*, *Government Pit*, occurrence, brief description, 84M/2315; *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *Virginia*, *Brocks Gap area*, large crystals, description, origin, 84M/1181; *Mexico*, *Guadalcazar granite*, high Ag content in fluid inclusions, 84M/0534; *Querétaro*, possible inclusions in opal, 84M/0489; *Chile*, *Chaquicamata*, crystals, descriptions, 84M/3607; *Barents Sea Shelf*, grain roundness, evidence for sedimentary environment, 84M/4453
—, alpha, *Spain*, *Tagus basin*, α-, new texture for in siliceous rocks, 84M/3474
—, amethyst, green, heat-treated, description, 84M/0499; natural and synthetic, distinguishing, 84M/1641; greened, gemmological props., ident., discovery, 84M/1647; *Finland*, *Lapland*, poor-quality, occurrences, 84M/4055; *USA*, *Rhode Island*, *Hopkinton*, sceptred crystals, description, 84M/2316
—, aventurine, *Finland*, *Lapland*, green, occurrences, 84M/4055
—, -feldspar intergrowths, simultaneous crystallization from granitic magmas, 84M/0805
, geodes *Iraq*, *Western Desert*, min., possible origin, 84M/0807

Quartz (*contd.*)
—, jasper, volcanic, genesis, 84M/0518; *Finland, Lapland*, red, occurrences, 84M/4055
—, rock crystal, *China, Guangxi*, deposits, distrib., regularity, ore genesis, 84M/1690
—, rose, necklace, description, 84M/0498; rose coloration in natural, cause, 84M/1377; *Finland*, occurrences, 84M/4055
—, sand *v.* sand
—, twins, *Germany, Bavaria, Acherwiese*, Japan twins, 84M/3599
—, veins, *western Ireland*, role in devolatization during metamorphism, 84M/0632; *Belgium, Daverdisse*, mineralogy, 84M/1483; *India, Haryana, Narnaul*, deformation structures in, 84M/1134; *Australia, New South Wales*, conjugate arrays, stress configurations in, 84M/4462
Quartzites, disaggregation using HF, method, 84M/0051; morphology, ontogeny of magnetite, hematite in ferruginous, 84M/1875; *USSR, Krivoi Rog*, morphological peculiarities of magnetite in, 84M/3198; *Ireland, Leinster granite*, spessartine-, in aureole, relation to marginal sulphide mineralization, 84M/1683; *Belgium, Daverdisse*, mineralogy, 84M/1483; detrital chromite in, anals., 84M/1878; *Lahonry*, min., petr., formerly said to be 'arkose', 84M/2208; *Spain, Galicia*, abnormal secondary lineation in high-*T*, explanation, 84M/4318; *Bulgaria, Asarel ore field*, secondary massif, position, morphology, internal structure, 84M/0934; *Susam* and *Svetline*, secondary, new data, 84M/1110; *south India*, chromiferous, min., 84M/0769; *India, Kerala*, fuchsite-bearing, 84M/4496; *USA, north west Utah*, Precambrian, Miocene K/Ar age for metamorphic muscovite from, 84M/1225; *Virginia, Augusta, Bath, Highland* and *Rockbridge Counties*, examination for silica resources, 84M/1512; *Brazil, Minas Gerais, Serra do Espinhaço*, spessartine crystals in, 84M/3127
Quaternary deposits, *Scotland*, 84M/0920
—, rocks, *Scotland, Grangemouth area*, estuarine deposits, 84M/4447
Quinoline *v.* hydrocarbons

Radioactive dust, *Ethiopia, Addis Ababa*, atmospheric contaminant, dynamics of, prelim. study, 84M/0330
—, elements, age of deposits, palaeodosimetric method for detn., 84M/3627; *Brazil, Bahia, Jequié*, distrib. in Archaean granulite rocks, 84M/3006
—, waste, disposal, brief discussion, 84M/0210; stabilization, solid-state molecular engineering and applied geochem. aspects, 84M/0324; *Australia, Northern Territory, Austatom U prospect area*, radionuclides of ^{238}U decay series, fixation near mineralized zones, 84M/0323
Radioactivity, natural, new kind, 84M/4064; *England*, natural in Chalk, 84M/2966; *West Carpathians*, natural, of granitic rocks, 84M/0567; *India*, source of heat generation in Precambrian granitic rocks, 84M/3590
Radiometric anomalies, *Canada, Manitoba, Molson Lake-Red Sucker Lake area*, airborne, from late kinematic granitic rocks, 84M/2935
Radiolaria, replacement of opaline by clinoptilolite, SEM study, 84M/1057
Radionuclides, in soil, measurement by L X-ray/γ-ray spectrometry, 84M/0311; incorporation in crystalline titanates, 84M/0325; *USA, Narragansett Bay*, natural and fallout produced, coastal mobility, model and real data, 84M/0321; *Atlantic* and *Pacific Oceans*, U-Th series, spatial variation in deep-sea Mn encrustations, 84M/4089
Radium, sorption on amorphous ferric oxyhydroxide, 84M/0312; in Chinese Bureau of U Geology standard ore samples, anal. procedures, values, 84M/0727; mineral sorption, comparison with U, 84M/3745; sorption by biotite, muscovite, phlogopite, 84M/3746
—, isotopes, ^{226}Ra, sorption from oil-production brine by sediments, soils, 84M/1534; *USA, Winyah Bay* and *Delaware Bay*, $^{224,226,228}Ra$ concentrations, 84M/2631; *Pacific Ocean, Galapagos rift*, ^{222}Ra, content of hydrothermal waters, 84M/2846
Radon, release and isotopic disequilibrium, theory of alpha recoil effects on, 84M/0389; exhalation, problem of effect of soil thermal gradients, 84M/2963; *Pacific Ocean, Galapagos rift*, ^{222}Rn, content of hydrothermal waters, 84M/2846
Raman microprobe, anal. of synthetic spinels in series $Mg(Cr_xAl_{2-x})O_4$, correlation between high frequency band and Cr/(Cr + Al) ratio, 84M/3827
—, spectra, gibbsite, effects of adsorbates, reexamination, 84M/1286
—, studies, crystalline and glassy anorthite, Ca-Tschermak's pyroxene, gehlenite, 84M/2527; water-bearing albite glasses, 84M/2528; spectra of gypsum under pressure, 84M/2542; glasses in system $Na_2O.x$-SiO_2-Fe-O, 84M/3975; Fe-bearing silicate melts, effect of *P* on structure, 84M/4033; Fe-bearing alkaline-earth silicate melts, 84M/4034
Ramdohrite, *Bolivia, Chocaya mine, Colorada Veine*, cryst. struct., implications for andorite group, zinckenite, 84M/0194
Rammelsbergite, *Iran, Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Ramsdellite, *USA, Arizona, Malpais Hill*, pseudomorphs after groutite, 84M/2325; *Mistake mine*, occurrence, props., 84M/4251; *Solomon Islands*, formation in exhalative environment, 84M/1880
Rare gases, constraints on evolution of Earth's mantle, 84M/2913; *v.* also noble gases and individually named
Rare earth elements *v.* elements
Raspite, *Japan, Kyoto Pref., Otani mine, Hankei dist.*, occurrence, X-ray data, 84M/4593
Realgar, use in Indian medicine, 84M/1527
Rectorite, high-resolution TEM study, 84M/0775
Red beds, *south China*, development, relation to U mineralization, 84M/2574;
Guangdong Prov., Quren Co., heavy minerals in 2 sets, study, 84M/3485; *Canada, Great Slave Lake, East Arm*, Lower Proterozoic, 84M/2582; *Mexico, Baja California, San Felipe area*, heavy metal mobility, distrib. during red bed formation, 84M/4146
Redox, effect on solubility, availability of Fe in soils, 84M/0095; effect on solubility, availability on Mn in calcareous soil, 84M/0096
RED SEA, Ni-free schreibersite in mineralized wood, new variety, 84M/0821; akaganéite micro crystals in brine, 84M/0837; horizontal inhomogeneity of waters in deeps, 84M/3021; metallogenesis, implications for from Egyptian sulphide deposit, 84M/4085; *18°N*, axial rift, structure, petr. underwater evidence, 84M/1047; *Atlantis II deep*, kerolite assoc. with anhydrite in sediments, first marine occurrence, origin, 84M/0797; akaganéite, wüstite in hot brine, 84M/2971; smectites, O-isotope geothermometry, origin, 84M/2976; *Sergebet Island*, C surface concentration profile in olivine crystals, $^{12}C(d,p)^{13}C$ and photoelectron spectroscopical studies, 84M/0519
Reference samples, geochem., 1982 bibliog., 84M/0710; USGS Mn-nodule, detn. of Pt in by fire assay-spectrographic method, 84M/0713; detn. of Be, Zr in geochem. by ICP spectrometry, 84M/0714; F in rocks, compilation of USGS reference sample F values, 84M/0716; detn. of Be in by AAS, 84M/0718; detn. of tr. elements in 6 BCS, 5 PRE by XRF, 84M/0719; USGS geochem. exploration samples GXRI-6, anals., 84M/0720; detn. of Se content by hydride-generation atomic absorption, 84M/0721; ^{230}Th content in CCRMP samples, detn. by α-spectroscopy, 84M/0722; Ag, Te, Pd content, detn. by mass spectrometric isotope dilution anal., 84M/0723; detn. of elements in NBS standard SRM 278 obsidian, SRM 688 basalt by ICP-atomic emission spectrometry, 84M/0726; prepn., anal., provision of recommended values, 84M/3061; stable isotope, comparison of, 84M/3062; *Scotland, Ailsa Craig*, microgranite, for tr. element standard, proposal for adoption, 84M/0708; *South Africa*, Cu content in primary/secondary, accurate detn. by cation exchange chromatography. AAS, 84M/0712; *v.* also standard samples
Refractories, silicon carbide, anal., scheme for, 84M/0070; periclase-chromite, constitutional changes as function of P_{O_2} at high-*T*, 84M/1576
Reinhardbraunsite, *Germany, Ettringer Bellerberg volcano*, cryst. structure, 84M/2504
Restite, enclaves in granites, 84M/3335; in granites, evidence, 84M/4349
Retzian-(Nd), *USA, New Jersey*, description, 84M/4606
Reyerite, similarity of structure to fedorite, 84M/1386
Rhabdophane, *England, Cornwall, Fowey Consols mine*, compn., new anal., 84M/1883
'Rheopsammite' *v.* sandstone
Rhodochrosite, transparent, gemmological props., ident., discovery, 84M/1647; quantitative XRD anal., 84M/2407; *Hungary, Úrkút*, predominant min. in submarine volcanogenic Mn deposit, 84M/1486; *Northern Calcareous Alps*, high-Ca in stratabound Mn deposit, 84M/2589; *Gabon, Moanda*, replaced by manganite in lateritic Mn ore formation, anals., 84M/0838; *USA, Colorado, Mountain Monarch mine*, crystals, description, 84M/2316

Rhodonite, *Finland*, occurrences, 84M/4055; *USSR, Tuva, Khadyn Fe deposit*, Fe-rich, opt., XRD, anals., 84M/4222; *Italy*, occurrences, description, 84M/2313; *Japan, Tamba belt Mn mines*, XRD data, 84M/4223
Rhodplumsite, *USSR, Urals*, new mineral, 84M/0892
Rhyodacite, *south east Spain*, garnets in, 84M/3126; *Peru, Hualgayoc*, sphalerite compn. zonation around, 84M/1895
Rhyolites, mixed, field characteristics, example, 84M/1044; ultrapotassic, origin, 84M/2015; *Japan, Nohi*, Cretaceous mass, volcanic activity of basaltic andesite in, 84M/4387; *Fukushima Pref., Yotsukura*, Neogene Tertiary, K/Ar age, 84M/0029; *Australia, Victoria, Jemba*, geochem., petrography, 84M/0579; *Canada, Ontario, Confederation Lake area*, in repetitive cyclical volcanic sequences, geochem., 84M/1735; *western USA*, topaz-bearing, petrogenesis, 84M/2047; *California, Coso volcanic field*, magmatic inclusions in, 84M/4400; *Texas, Paisano volcano*, peralkaline, suite with trachyte, origin, 84M/1016; *north Mexico*, assoc. with Sn mineralization, petr., geochem., 84M/3862; Rhyolite, *Mariana Islands, Saipan Island*, low-K, from Mariana frontal arc, origin, 84M/1733
Rhyolitic glass *v.* glasses, rhyolitic
Rhyolitic magma *v.* magma, rhyolitic
Richelsdorfite, *Germany, Richelsdorf Mtns.*, new mineral, data, 84M/3246; *St Andreasburg*, occurrence, 84M/1173
Richterite *v.* amphibole, richterite
Riebeckite *v.* amphibole, riebeckite
Rifts, *Sweden, Jofjället area*, greenstones related to, 84M/0628; *Ireland*, postulated Lower Carboniferous rift, metallogenic consequences, 84M/1451; *Egypt, Sinai*, Suez rift, evolution, 84M/0938; *Ethiopia, Hora Mirrga (Lake Langano) region*, recent crustal movement, geodetic measurement, 84M/1190; *East Africa*, structural sketch, comparison with field, seismic data, possible future oceanic opening, 84M/1194; *West Africa*, how many are there?, 84M/4617
Rifting, epochs of, link with global compression/expansion epochs, new hypothesis, 84M/0951; finite, effects on sedimentary basin development, 84M/3614; *France*, chronology, petr., assoc. volcanism, 84M/0925; *Red Sea*, possible uplift of upper mantle ultramafic bodies during, 84M/0985; *Ethiopia*, evolution, volcanotectonic aspects, 84M/0939; *Canada, Arctic area, Freemans Cove*, assoc. with primitive nephelinitic volcanism, 84M/4393; *Quebec, Cape Smith fold belt*, Proterozoic, magma evolution during, 84M/2042
ing complexes, *Egypt, south Eastern Desert*, geochem., 84M/0984; *Nigeria, Tibchi*, structural evolution, 84M/0987
ingwoodite, structural and phys. props., computer simulation, 84M/3793
ivers, *Belgium, River Meuse*, and *France, River Garonne* and *Gironde Estuary*, adsorption of Cd, Cu, Pb, Ni, Zn on hydrous oxides, application of model, 84M/2632; *Spain, Granada, Sierra Nevada*, chem. weathering in basin, quantification, 84M/2968; *Japan*, classification by bottom mud heavy metal content, 84M/1537; *South Africa, Burgersfort, Oliphants* and *Steelpoort rivers*, bar to bank convection, role in origin of alluvial placers, 84M/2555; *v.* also streams and water
Robinsonite, *Spain, Vall de Ribes*, additional data, 84M/0860
Rockbridgeite, *Germany, Hagendorf Süd*, tonnage mined, 84M/0876
Rock cores, preservation using heat-sealable pouches, 84M/0055
—, crystal *v.* quartz
—, deformation, pressure solution in nature, theory, expt., 84M/0341; jacketing of specimens in high *T*, *P*, expts., 84M/0344; role of fluid phase during, 84M/2252; randomness testing in 3-D orientation data, 84M/3302; effect on heat flow–heat production rates, 84M/3579; aegirine-syenite, failure mechanism and mechanical characteristics, microscope study, 84M/3583; atlas of rock fabrics (book), 84M/3693; experimentally folded single layer rock salt, microstructure texture, 84M/4002; rhomb structures, new aspects of, 84M/4299; extension basin margins, structural evolution, 84M/4313; *south Norway*, Devonian, in Caledonides, regional perspectives, 84M/1983; *Sweden, Artfjället*, factors influencing rock competence, data from deformed conglomerate, 84M/2256; *England, Dorset, Isle of Purbeck*, natural deformation in Chalk, example, 84M/4449; *Spain, Sierra Alhamilla*, relation to plagioclase porphyroblast growth, 84M/2262; *Italy, Val d'Aosta, Bard*, during subduction and uplift, 84M/2260; *Western Australia, Pilbara dist.*, recognition of soft-sedimentary deformation in accretionary lapilli beds, use of folding, clastic dyke injection, 84M/0904; *Queensland, Georgetown inlier*, age of D^4, 84M/3662; *Canada, British Columbia, Revelstoke area*, brittle, in Columbia River fault zone, 84M/4510; *Newfoundland, Cape Ray fault zone*, geol., structural history, 84M/2001; *Quebec, Lac Bécancour area*, structural interpretation, application of geophys., 84M/2000; *central* and *southern Appalachian Mtns.*, age of, 84M/1220; *USA, California, Culbertson Lake allochthon*, 4 phases of deformation/extension, evidence, 84M/3322; *Wyoming, White Rock thrust*, brittle to ductile transition due to large strains, 84M/4338; *Antarctica, eastern Palmer Land*, granitic plutons, 84M/1996; *Pacific Ocean, Tonga subduction zone*, deep seismicity, modes of deformation, 84M/4557
—, —, boudinage, clay, strain fields in, around, exptl., 84M/1978; interaction of extension veins with bed-parallel stylolites, 84M/4305; *Sweden, Väddö area*, folding of, field and lab. study, 84M/1954
—, —, cleavage, refraction, relevance of finite strain variation through contrasting layers, 84M/1968; *Ireland, Co. Cork, Church Bay*, geometry and anticline development, 84M/4312
, , faulting, wrench, control of graben initiation by, 84M/1188; dynamic differentiation of fault zones, assoc. of chem. elements in, 84M/1765; linked systems with fold-thrust structures, anal. by new displacement-distance methods, 84M/1944; continental fault structure and shallow earthquake source, 84M/2286; relationship with strain rates, crustal thickening, palaeomagnetism, finite strain in deforming zone, 84M/2334; geometrical evolution of normal fault systems, 84M/3303; 'clayization' in fault zones, 84M/3771; long-lived, possible use of the concentrations in H_2O samples in studies, 84M/4070; *Scotland* and *Ireland*, extensional, possible origin for Dalradian slides, 84M/4311; *Ireland, Co. Kerry, Lough Guitane volcanic complex* contemporaneous with formation, 84M/3308; *Wales, Anglesey, Mona complex*, strike-slip, review, 84M/1123; *Baltic Shield, Ladoga region*, long-evolving deep, metallogenic belt of, 84M/3879; *northern Greece* and *Turkey*, neotectonics, implications for 'incompatible' structures along North Anatolian fault, 84M/1955; enigmatic structures in North Anatolian fault zone, tectonic implication, 84M/1956; *Japan, Kyushu*, displacement distrib. along minor, 84M/3317; *New Zealand, Alpine zone*, semi-brittle deformation within fault zones, 84M/4332; *Morocco, Haut Atlas*, reactivation of old during Triassic, 84M/1085; *Egypt, Abu Durba to Gebel Mezzazat*, relation to Suez rift evolution, 84M/0938; *Canada, British Columbia, Revelstoke area*, brittle deformation in fault zones, 84M/4510; *South Shetland Islands, King George Island*, block faulting, late Cainozoic phases, 84M/0945; *south west Barents Sea*, long-lived fault zones, influence on tectonic development, 84M/4322; *Gulf of California*, detn. of tectonic regimes from, relation to opening of Gulf, 84M/1199
—, —, folds, volume changes in heterogeneously deformed rocks, estimation by comparative chem. anals., 84M/1966; patterns influenced by linear rock fabrics, 84M/1976; intracontinental fold belts, case studies (book), 84M/2453; progressive in ductile shear zones, 84M/4302; *Sweden, Väddö area*, folding of boudinaged layers, field and lab. study, 84M/1954; *Scotland, Inverness-shire, Glen Garry region*, early curvilinear structures in Moine, 84M/3305; *Germany, Rheinische Schiefergebirge*, migration, deduction from K/Ar, Rb/Sr ages, 84M/3270; *India, Haryana, Narnaul*, in pegmatite, aplite, quartz veins, 84M/1134; *Canada, Ontario, Upper Manitou Lake*, kink folds in greenstones, 84M/2274
—, —, fracture, rock durability in marine environment, ident. of critical factors, 84M/1169; crustal thinning near fracture zones, evidence, implications for ophiolites, 84M/2081; micro in carbonate rocks, explanation using photoelastic models, 84M/3468; stress estimates from length/width ratios, 84M/4301
, —, imbricate structures, *Scotland, Ettrick area*, details, 84M/1988
—, —, shearing and shear zones, complex strain patterns at frontal, lateral tips, 84M/1970; strain variations in, implications from strain patterns in glacier ice, 84M/1977; naturally occurring terminations, displacement and strain patterns, 84M 3304; supposed Permo-Trias megashear between Laurasia, Gondwana, 84M 3616;

Rock deformation, shearing and shear zones (*contd.*)
progressive refolding in ductile zones, 84M/4302; *Scotland, Moine thrust zone* and *NW Caledonides*, shear zones, 84M/1120; *France, Brittany, Chatelaudren metagabbro*, strain geometry, microstructure, min. chem. in, softening mechanisms during progressive mylonitization, 84M/3527; *Switzerland, Helvetic nappes*, calcite fabrics in, 84M/4321; *Zimbabwe* and *Zambia*, relationship to plate movements, 84M/4324; *South Africa, Prieska area*, on margin of Namagua, Kheis mobile belts, 84M/3314; *Canada, Quebec, Henderson 2 mine*, geomechanical development, correlation with evolution of mineralizing fluids, 84M/3913
—, —, strain, bulk, calculation in oblique, inclined balanced cross sections, 84M/1951; anal. using shape of expected, observed continuous frequency distribs., 84M/1957; finite, estimation using 'anticlustered' point distribs., 84M/1958; orthographic anal. of geol. structures, 84M/1960; inhomogeneous deformation, application of Mohr circle construction, 84M/1961; compatibility equations and pole to Mohr circle, 84M/1962; spatial integration using finite elements, 84M/1963; simulation in inhomogeneously deformed rocks using general harmonic coordinate transformation, 84M/1964; isotropic points, lines in strain fields, 84M/1965; volume changes in heterogeneously deformed rocks, estimation by comparative chem. anals., 84M/1966; kinematic, mechanical discontinuity at coherent interface, 84M/1967; finite, variation through contrasting layers, bearing on cleavage refraction, 84M/1968; theoretical patterns in zones undergoing simultaneous heterogeneous simple shear and bulk shortening, 84M/1969; complex patterns at frontal, lateral tips to shear zones, thrust zones, 84M/1970; patterns influenced by linear rock fabrics, 84M/1976; patterns in ice cap, implications for variations in shear zones, 84M/1977; fields in and around boudins in clay expt., 84M/1978; relationship with crustal thickening, palaeomagnetism, fault movements in deforming zone, 84M/2334; viscosity contrast and finite strain, estimation from deformed elliptical inclusions , 4298; measurement of finite from ellipsoidal objects, comparison of methods, 84M/4303; 2-dimensional, detn. from orientation of lines in a plane, 84M/4304; *Scandinavia, Seve-Köli complex*, discontinuities in, 84M/4307; *Scotland, Assynt region*, in thin-skinned tectonic zones, examples, 84M/4310; *Glen Garry region*, in Moine rocks, 84M/3305; *France, Massif Central*, finite strain, detn. in gneiss, application of Fry's method, 84M/1959; *Montagne Noire, Pardailhan nappe*, distrib., structure of basal thrust zone, implications for events during nappe emplacement, 84M/1974; *Switzerland, Helvetic thrust zone*, partitioning in from leading edge to internal zone, 84M/4320; *Alps*, patterns in nappes, 84M/1975; *Alps, Aar granite*, pattern, bulk inhomogeneous flattening in orthogneiss, 84M/1972; *Australia, Chewings Range*, state of in quartzite mylonite, 84M/1971; *Canada, Ontario*, patterns in crescentic granitoid plutons, 84M/1973; *Muskoka dist.*, anal. of deformed granitic rocks, 84M/1953
—, —, thrusts and thrust zones, fold-thrust structures, anal. by displacement-distance methods, 84M/1944; thin-, thick-skinned, tectonics, deep crustal continuation, 84M/1947; complex strain patterns at frontal, lateral tips, 84M/1970; strains in hanging-walls due to slip/propagation rate, dislocation model, 84M/4300; *Norway, Sparagmite region*, structures, 84M/1981; *Oslo region, Ringerike dist.*, evidence for in Ordovician rocks, 84M/1982; *Finland, Kemiö Island*, thrusting in Svecofenian-mantled gneiss dome, evidence, 84M/3521; *Scotland, Moine thrust zone* and *NW Caledonides*, thrust zones, 84M/1120; *Ireland, Connemara*, major southward thrusting of Dalradian rocks, 84M/3526; *France, Pardailhan nappe*, basal, structure and strain distrib., 84M/1974; *Switzerland, Helvetic zone*, strain partitioning in from leading edge to internal zone, 84M/4320; *Czechoslovakia, Bohemian massif, northern margin*, intracrustal, subcrustal tectonics, 84M/3273, *South Africa, Prieska area*, thrust zones on margin of Namaqua, Kheis mobile belts, 84M/3314; *USA, California, Vincent thrust*, movement on, relationship to Pelona schist deformation, metamorphism, 84M/4519; *south Nevada*, décollment thrusting, new type, 84M/3324; *New York, Appalachian plateau*, role of small scale detachment structures in, 84M/4470
—, systems, polyphase, multicomponent, algebraic and geometric approach to composition space, 84M/1544; and reaction space, 84M/1545; n-dimensional composition space, linear algebraic manipulation, 84M/1546
Rocks, use of epoxy rock replicas in microtoming, 84M/0052; quantitative anal. and 3-D display of epoxy rock replicas, new system, 84M/0053; extraction and chem. anal. of interstitial water, 84M/0067; component representation, generation using Simplex approach, 84M/0074; glassy, surface chem. and dissolution kinetics at 25°C, 84M/0368; inside the Earth, effect of environmental parameters on tectonic behaviour, 84M/0902; genetic significance of accessory minerals, 84M/0903; calculation of orientation diagrams, crystallographic approach, 84M/0905; durability in marine environment, ident. of critical factors, 84M/1169; cooling history, application of orthopyroxene Mg-Fe^{2+} order/disorder to, 84M/1837; reliability in anal., 84M/2410; detn. of Fe^{2+} in, 84M/2413; continental crustal, grouping into petrochem. system, evolution, 84M/2790; terrestrial, variations of Os/Ir ratio, 84M/2822; distrib. of elements in, interpretation of lognormal distrib., 84M/4066
Rock salt, experimentally folded single layer, microstructure, texture, 84M/4002; *v.* also halite
—, deposits, *Carpathian foreland*, conditions of occurrence, possible further discoveries, 84M/3921
Rodingites, *England, Cornwall, Lizard complex, RE* element content, origin, 84M/2993; *Italy, east Liguria*, development in basaltic rock in serpentinites, 84M/3502
Roemerite *v.* römerite
Roepperite, *Australia, NSW, Broken Hill*, shown to be ferroan tephroite, 84M/1822
Romanechite, high-resolution TEM study, 84M/0775
ROMANIA, clinoptilolite, adsorption of CO_2, SO_2, NH_3, N_2O, H_2S, 84M/2284; *Baia Mare dist.*, Pb, Zn, Cu frequency distrib. in polymetallic deposits, 84M/0541; *Offenbánya-Baia de Arieș*, sylvanite, gold, occurrences, 84M/2309; *Rodna Mtns., Blazna-Guset mining area*, strata-bound Pb-Zn-pyrite deposits in Upper Precambrian carbonate rocks, 84M/1463; *Săcărîmb* [now *Nagyág, Hungary*], Au mining, history, mineral list, 84M/2306; *Verespatak* (*Rosia Montana*), gold mining, mineralization, 84M/2305
Römerite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Roosveltite, *Germany, Odsbach bei Oberkirch*, new discovery, 84M/2299
Rosasite, *Germany, Ramsbeck*, occurrence, 84M/4560; *USA, Arizona, Silver Bill mine*, fine specimens, 84M/2329
Rosickyite, *Germany, St Andreasburg*, occurrence, 84M/1173
Rozenite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *East Germany, Eisenhüttenstadt area*, on xylite in glaciofluviatile sands, 84M/4271
Rubidium, istopic anal. with automatic thermal ionization mass spectrometer, 84M/3687; *Norway, Sæteråsen,*, geochem. exploration methods for, 84M/1807; *Madeira*, detn. in volcanic rocks, 84M/2880; *Iraq*, distrib. in rocks, 84M/0605; *China, Fujian Prov.*, in rare metal pegmatite, geol., geochem., 84M/1476; *Hubei Prov., Basin Q*, in Tertiary saline formation, geochem., 84M/1746; *Japan, Kitakami Mtns.*, in cretaceous plutons, 84M/0997
Ruby *v.* corundum
Rutheniridosmine, *Canada, Manitoba, Bird River sill*, inclusions in chromite, 84M/1872
Rutile, complex epitaxial twins, cubic and hexagonal symmetry, 84M/0827; oriented intergrowth with corundum, exptl. study, 84M/2684; intergrowths with goethite, hydrothermal synthesis, structural relationship to pseudorutile, 84M/2692; *France, Armorican Massif*, recovery from sands, 84M/2609; *Czechoslovakia, Javorie Mtns.*, occurrence, 84M/0254; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Japan, Kyoto Pref., Isanago mine*, occurrence, morphology, X-ray data, 84M/4592; *Kii Peninsula*, in granitic rocks, paragenesis, 84M/1891; *South Africa, Jagersfontein* and *Kampfersdam mines*, graphic intergrowths with olivine in kimberlite, 84M/4381; *Canada, Elliot Lake area* and *South Africa, Pongola Basin*, uraniferous grains in Precambrian conglomerates, 84M/3860; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320
—, -cassiterite, class of pigments for vitreous enamel industry, 84M/2608
Rutilization, *Czechoslovakia, Zlaté Hory*, of ilmenite, 84M/1874
RWANDA, *Lake Kivu*, N-alkanes from sediments, chem. compn., 84M/0692

Safflorite, *Iran*, *Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Sahamalite, *USA*, *California*, *Mountain Pass mine*, crystal structure, 84M/2545
ST HELENA, alkali basalts, tr. element partition coefficients between melt/mineral, 84M/2891
Saint Lucia v. Lesser Antilles
Sb-bismutotantalite *v.* bismutotantalite
Saipan Island v. Mariana Islands
Saline formations, *China*, *Hubei Prov.*, *Basin Q*, Tertiary, geochem. of Br, Rb, B, Li in, 84M/1746
—, lakes *v.* lakes, saline
Salt, *USA*, *Colorado*, movement in fine-textured processed oil shale under semi-arid conditions, 84M/1524; *v.* also rock salt, halite
—, diapirs *v.* diapirs
—, marshes, *USA*, *Delaware Bay*, sedimentary ion diffusion, sulphate reduction, pyritization, 84M/2982
Samarium, distrib. in ilmenite from various igneous rocks, 84M/1667
—, isotopes, ^{147}Sm, decay to ^{143}Nd, geol. applications, 84M/2813
Samarskite, *India*, *Andhra Pradesh*, *Kanigiri area*, in granitic rocks, 84M/0575
SAMOA, rock $^{176}Hf/^{177}Hf$ ratios, comparisons, 84M/0583; stream, ground, soil, rain water, chem. compns., 84M/3031
Sand, *Belgium*, *coastal region*, beach sand, min., granulometric characteristics, 84M/2206; *India*, *Assam*, *Barail* and *Tipam*, clay minerals in, 84M/3764; *China*, *Tianshan Mtn.*, *Tuomuerfeng*, quartz, surface microtextures, 84M/4459; *Hubei Prov.*, *Dangyang Co.*, Cretaceous æolian quartz, SEM study, 84M/3484; *Australia*, *Queensland*, *Cape Flattery*, humate cemented (humicretes), characteristics, significance, 84M/3486; *USA*, *California*, *Palos Verdes Peninsula*, sources on pocket beaches, 84M/4471; *east Texas*, in lignite overburden, min. transformations during weathering, 84M/1335
—, dunes, *USA*, *Alaska*, cemented horizon in subarctic, 84M/4465
—, resources, *England*, *Suffolk*, *Redgrave*, 84M/0309; *Scotland*, *Central Region*, *Callander* and *Dunblane*, 84M/0308; *Iraq*, for concrete, alkali reactivity, 84M/0302
Sandstone, quartz-, exposure to shock waves, planar elements in, 84M/3961; *Greenland*, *Independence Fjord*, mobilized ('rheopsammite') intrusion, interaction with sialic crust, 84M/2017; *England*, *East Midlands* and *Wessex Basin*, Triassic, dissolved U in groundwaters, U contents, $^{234}U/^{238}U$ activity ratios, 84M/3009; *Birmingham*, Triassic aquifer, groundwater chem., relation to structure, 84M/0650; *Belgium*, *Daverdisse*, detrital chromite in, anals., 84M/1878; *Poland*, *Carpathian Mtns.*, tors, min. crusts of surface weathering zone, 84M/4451; *Germany*, *Dill syncline*, Upper Devonian feldspathic, lithology, 84M/2210; *Switzerland*, *Zurich* and *St. Gallen*, building stone, weathering, petr., chem., 84M/0929; *Spain*, *Guadalajara*, *Mazarete*, U bearing/barren arkosic, diagenetic characteristics, possible differences, 84M/2586; *Bulgaria*, *Sliven area*, quartzitic, lithology, 84M/2212; *West Carpathians*, in Drnava formation, lithology, petr., 84M/1081; *north-northeast Iraq*, min., geochem. differentiation in, 84M/0607; *Canada*, *Alberta*, *Cold Lake*, reservoir type in Clearwater formation, provenance, feldspar compn., 84M/3493; *Nova Scotia*, *Pugwash Harbour*, U-rich reduction spheroids in, 84M/2980; *USA*, *Arizona*, *Kirkland Junction*, basaltic lacustrine, occurrence of harmotome in, 84M/0813; *Illinois*, *St. Peter* and *Mt. Simon*, porosity and cement, regional variations, 84M/4469; *Texas*, *Cotton Valley*, diagenesis, influence on reservoir porosity, 84M/2228; *Virginia*, *Augusta*, *Bath*, *Highland* and *Rockbridge Counties*, examination for silica resources, 84M/1512; *Antarctica*, *Alexander Island*, sedimentary dykes of, 84M/1101; *Taylor Valley area*, desert varnish on, nuclear microprobe and ^{57}Fe Mössbauer study, 84M/2978
—, Old Red, *v.* Devonian rocks
—, resources, *England*, *Yorkshire*, *Horton-in-Ribblesdale*, 84M/0294; *Wales*, *Caerphilly area*, 84M/3918
Saneroite, *Italy*, occurrences, description, 84M/2313
Sanidine *v.* feldspar
Santaclaraite, *USA*, *California*, *Diablo Range*, new mineral, 84M/4287
Saponite *v.* smectite
Sapphire *v.* corundum
Sapphirine, structural relation with surinamite, 84M/1367; *Greenland*, *Fiskenæsset region*, with magnesian högbomite, microprobe anals., 84M/0824; *India*, *Paderu*, occurrence, 84M/0770
—, -bearing rocks, *Italy*, *Ivrea zone*, *Finero*, along gabbro-lherzolite contact, bulk compn., min. parageneses, 84M/3537; *India*, *Tamil Nadu*, *Panrimalai*, *petr.*, 84M/4495
Saprolite, *Western Australia*, *Yilgarn block*, cemented by allophane or kaolinite and opal-CT, 84M/1095
Sarcolite, *Italy*, *Vesuvius*, *Monte Somma*, history of discovery, Sr and F content, new formula, props., 84M/1919
Sarcopside, *Germany*, *Hagendorf Süd*, tonnage mined, 84M/0876
Sasaite, possible identity with vashegyite, 84M/1918
Saturn *v.* planets
Sauconite, *USA*, *Arizona*, *Defiance-Silver Bill mines*, with cuprian fraipontite, occurrence, props., 84M/1859
SAUDI ARABIA, soils from central alluvial basins, min., 84M/0140; *eastern*, soils, min., 84M/0141; *Arabian Shield*, Upper Proterozoic ophiolite mélange zones, 84M/2148; *southern*, Rb/Sr geochron., plate tectonic evolution, 84M/0991; *Arabian-Nubian Shield*, oceanic, continental rock Pb data, distrib., 84M/1212; *Jabal al Abyad*, volcanic chain, correspondence with main fracture axis, 84M/1025; *Jabal al Wask* and *Jabal Ess*, late Proterozoic ophiolites, Sm/Nd data, implications for crustal, mantle evolution, 84M/3654; *Jebel Thurwah*, Upper Proterozoic ophiolite complex, geol., 84M/3372; *Mahd adh Dhahab gold mine*, tectonic control of mineralization, 84M/2596
Sayrite, *Zaïre*, *Shaba*, *Shinkolobwe*, new mineral, 84M/0893
SCANDINAVIA, cross section through Caledonides, construction using branch-line maps, 84M/1946; ophiolite fragments in Caledonides, 84M/2127; *south west Fennoscandian shield*, palaeomagnetism, 84M/4306; *Seve-Köli nappe complex*, strain discontinuities in, 84M/4307; *v.* also *Finland*, *Sweden*, *Norway*, *Denmark*
Scapolite, calcic Cl-free, T-X_{CO_2} stability relations, phase equilibria, 84M/0476; structure, effects of T, P on, 84M/1346; ordering and compn., field observations, structural implications, 84M/1863; *Sri Lanka*, cat's-eye, study, 84M/0496; cat's eye gemstone, opt., cause, 84M/1645
—, meionite, *Italy*, *Mt. Vesuvius*, new find, 84M/4566
Scheelite, detn. of W, Sn in using XRF spectrometry, 84M/0075; synthetic hydrothermal, thermoluminescence, fluorescence, electron paramagnetic resonance props., 84M/0419; *central east Greenland*, mineralization, 84M/1434; *USSR*, *Kazakhstan*, *Bayan deposit*, stratiform mineralization, 84M/0272; *Austria*, *Lienz area*, enrichment in gneisses, geol., 84M/2567; *Navistal*, mineralization in Fe-rich dolomitic unit, 84M/2591; *Rauris Valley*, *Sonnblick*, description, 84M/2302; *Salzburg*, *Mühlbachtal/Oberpinzgau*, mineralization in Fe-rich dolomitic rocks, 84M/2592; *Czechoslovakia*, *Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253; *Italy*, *Sicily*, *San Carlo mine*, mineralization, 84M/2594; *India*, *Uttar Pradesh*, *Alinora* and *Chamoli dists.*, occurrence, origin, 84M/1468
—, deposits, *Portugal*, *Taronca*, lithostratigraphy, tectonics, metamorphism, 84M/2587; *Japan*, *Kiwada*, *Fujigatani* and *Kuga mines*, contact-metasomatic, wolframite from, 84M/3905
Schirmerite, *Scotland*, *Corrie Buie Pb deposit*, minor constituent in quartz veins, 84M/1483; *USA*, *California*, *Darwin area*, exsolved in galena, 84M/4607
Schist, migmatitic pelitic, melanosome textural relations, implications for leucosome-generating processes, 84M/2239; eclogite-schist complexes, clinopyroxenites from, 84M/3512; *Spitsbergen*, *Svalbard*, *Oscar II Land*, glaucophane-, petr., 84M/2253; *England*, *Cornwall*, *Lizard complex*, *Traboe area*, hornblende-, borehole sections through, 84M/3450; *south west Scotland* and *north east Ireland*, Dalradian albite-porphyroblast, petrogenesis, 84M/1122; *Ireland*, *Connemara*, polydeformed pelitic, model for persistence of early planar fabrics in, 84M/4487; *Poland*, *Kamienickie Range*, Izera schists, origin of Sn mineralization in, 84M/1462; *Austria*, *Steiermark*, *Gabel*, garnet-kyanite-mica, study, 84M/3530; *Tauern window*, *P-T* paths for high-*P* metamorphism from, 84M/4490; *Italy*, *Sardinia*, *Capo Spartivento*, mica-, metamorphism of, 84M/2235; *Yugoslavia*, *Serbia*, *Crni Vrh area*, talc bearing, 84M/4480; *Carpathian Mtns.*, *Maramureş massif*, complex with gneiss, U/Pb dating of accessory zircon from, 84M/1210; *India*, *Karnataka*, *North Kanara* and *Kumsi*, quartzo-feldspathic with Mn-formations, petr., 84M/2267; *Japan*, *Hazu-Hongusan area*, *Ryoke*

Schist (*contd.*)
belt, staurolite-, metamorphic conditions, 84M/4499; *Hida metamorphic belt*, obliquity of K-feldspar from, 84M/1860; *Hida terrain, Unazuki*, pelitic, progressive metamorphism, 84M/1139; *Kochi Pref.*, weathering of, 84M/1344; *Sanbagawa*, coexisting 3T, $2M_1$ muscovites in, 84M/3151; mafic volcanogenic, origin, 84M/4501; *Shikoku, Bessi area*, pelitic in oligoclase-biotite metamorphic zone, petr., 84M/1143; *Tokushima Pref., Kito-Munemori landslide area*, weathering of, 84M/2491; *Indonesia, Timor, Boi massif*, cordierite-bearing, metamorphic *P-T* conditions, tectonic implications, 84M/2272; *New Zealand, Otago, Arrow Junction*, piemontite-bearing, min., petr., 84M/3553; *Africa, Nigerian sector of Pan-African province*, Upper Proterozoic belts, 84M/3544; *Canada, Yukon Territory, Klondike*, Rb/Sr whole-rock age, 84M/0046; *USA, California*, calibration, testing, application of garnet-hornblende geothermometer, 84M/4520; *Vincent thrust*, deformation, metamorphism of Pelona schist, relationship to movement on thrust, 84M/4519; *west central Massachusetts*, sulphidic, pickeringite formation by weathering, mechanism, 84M/1521; *New Hampshire, Merrimack synclinorium*, pelitic, *P, T*, metamorphic zonation studies, 84M/1152; *North Carolina, Anakeesta formation*, sulphidic, kyanite-staurolite metamorphism in, 84M/3564; *South Georgia, Cooper Bay-Wirik Bay area*, geol., 84M/1144
Schreibersite, *Red Sea*, new Ni-free variety in mineralized wood, 84M/0821
Schröckingerite, luminescence at 4·2K, 84M/3573
Schulenbergite, *Germany, Harz Mtns., Glücksrad mine*, new mineral, data, 84M/3247; *Ramsbeck*, occurrence, 84M/4560
Schumacherite, *Germany, Saxony, Schneeberg*, new mineral, data, 84M/3248
Scolecite *v.* zeolites
Scoria, *Ethiopia, Tulu Dimtu, Giorgis*, pozzolanic props., prelim. study, 84M/0300
Scorodite, *Japan, Kyoto Pref., Mt. Gyoja*, occurrence, morphology, X-ray data, 84M/4596; *Mexico, Durango, Naica*, blue crystals to $\frac{1}{2}''$, description, 84M/4613
SCOTLAND, geol. of (book), 84M/0079; growth and structure, 84M/0907; Lewisian rocks, age, geol., 84M/0908; Torridonian-Moine rocks, age, lithology, 84M/0909; Dalradian rocks, occurrence, age, 84M/0910; Lower Palaeozoic rocks, stratigraphy, 84M/0911; structure, palaeogeog., 84M/0912; Caledonian and earlier magmatism, 84M/0913; Old Red Sandstone deposits, lithology, 84M/0914; Carboniferous rocks, lithology, geol., 84M/0915; Carboniferous-Permian igneous rocks, 84M/0916; Permo-Triassic rocks, 84M/0917; Jurassic, Cretaceous, Tertiary sediments, stratigraphy, petrography, 84M/0918; Tertiary igneous activity, 84M/0919; Quaternary deposits, 84M/0920; economic geol., 84M/0921; metamorphic and anatectic migmatites, contrasting textures in, Caledonide example, 84M/2240; ending of Caledonian orogeny in, 84M/3306; total Pb concentrations in soils, 84M/3938; extractable Pb concentrations in soils, 84M/3939; Dalradian slides, possible origin as extensional faults, 84M/4311; *north east*, Upper Jurassic 'Boulder Beds', fault controlled submarine slope, 84M/3471; *north west*, Archaean granulite-facies rocks, element depletion in, 84M/1773; Dalradian albite porphyroblast schists, petrogenesis, 84M/1122; *Appalachian-Caledonian orogen*, MOIST and continuity of crustal reflector geometry, 84M/3585; *Highland Border suite*, serpentinization, metamorphism, stable isotope study, 84M/0631; *Midland Valley*, stromatolite-hosted mineralization in Oil Shale group, 84M/1412; *Moine thrust zone* and *NW Caledonides*, thrust and shear zones, 84M/1120; *River Tay*, chem. quality, ionic balance, 84M/1780; *Southern Uplands*, crustal melting, genesis of isotopically, chemically zoned plutons, 84M/1717
—, BORDERS REGION, *Southern Uplands, Ettrick area*, imbricate structure, 84M/1988
—, CENTRAL REGION, *Callander* and *Dunblane*, sand, gravel resources, 84M/0308; *Grangemouth area*, Quaternary estuarine deposits, 84M/4447; *Ochil Hills, Blairlogie, Alva, Sheriffmuir*, origin of Ag-Cu-Co-$BaSO_4$ mineralization, S-isotope study, 84M/2831; *Tyndrum*, vein Pb-Zn-deposits, S-isotope investigation, 84M/1670
—, DUMFRIES & GALLOWAY, *Black Stockarton Moor complex*, geol., 84M/0957; *Wanlockhead-Leadhills*, mining history, min. assemblages, mineralogy, 84M/1172; *Water of Luce* and *Luce Bay*, mixing of river, sea-waters, behaviour of *RE* elements during, 84M/4162
—, GRAMPIAN REGION, *Morayshire*, Cothall limestone, lithology, 84M/1066; *Haddo House complex*, grandidierite from pelitic xenolith, anal., 84M/4217; *Huntly* and *Belhelvie*, corona symplectite-forming reaction between olivine and plagioclase, quantitative estimation, 84M/2019; *Inverurie*, macaulayite, new mineral, props., 84M/1936; *Lyne of Skene*, extended hopanoids in peat environment, 84M/3048
—, HIGHLAND REGION, *northern Highlands*, Moinian rocks, chem. correlation, 84M/0629; Loch Quoich line, limit of early Palaeozoic crustal reworking in Moine, 84M/1986; *south west Highlands*, H_2O-CO_2 fluid phase during regional greenschist/epidote-amphibolite facies metamorphism, genesis, mobility, 84M/0630; *eastern Ardgour*, Moine rocks, stratigraphy, structure, 84M/1987; *Inverness-shire, Ardnish*, Precambrian pegmatite, structural dating, relevance to status of 'Morarian orogeny', 84M/1121; *Angus region*, localized uplift in Dalradian, Rb/Sr age evidence, 84M/3639; *Sutherland, Arnaboll thrust*, reaction softening in mylonites, 84M/1119; *Assynt region*, thin-skinned tectonic zones, strain, textural history, examples, 84M/4310; *Ballachulish area*, dolomite, distinction of genetic types by ESR spectroscopy, 84M/4274; *Isle of Eigg*, pitchstones and felsites, age, origin, isotopic evidence, 84M/0014; *Foyers granitic complex*, metamorphic environment, 84M/2232; *Gairloch area*, example of use of down-hole pulse electromagnetic surveying, 84M/1411; Lower Proterozoic stratiform Cu-Zn-Au mineralization, 84M/1482; *Glen Urquhart*, pegmatites from serpentinite-metamorphic complex, Caledonian ages, 84M/1208; *Great Glen fault area*, fenites, breccia dykes, albitites, carbonatitic veins near, 84M/3497; *Inverness-shire, Mealfuarvonie outlier*, Old Red Sandstone of, geol., lithology, 84M/1065; *Isle of Rhum*, cyclic unit in intrusion, isotope and geochem. evidence of evolution, 84M/4104; Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite, 84M/4249; supernatant and interstitial fluids, mixing in layered intrusion, 84M/4360; *Scourian complex*, metamorphism, 84M/2257; *Isle of Skye*, Tertiary lavas, isotope geochem., contamination mechanics, 84M/1708; ferrodioritic liquids, significance in magma mixing, 84M/4363; *Isle of Skye, Sconser quarry*, Tertiary basic sill, elemental mobility during hydrothermal alteration, 84M/0619; *Strontian*, metamorphic *T* distrib. around granodiorite, 84M/1106
—, LOTHIAN REGION, *East Lothian*, volcanic rocks, geophys., 84M/4365
—, STRATHCLYDE, *Ailsa Craig*, microgranite tr. element reference material, proposal for adoption, 84M/0708; *Ballantrae ophiolite complex*, graptolite faunas, structural implications, 84M/2066; concealed ultramafic bodies, borehole results, 84M/4364; accretionary lapilli, highly vesiculated pumice in ophiolite complex, 84M/4406; *Etive complex*, origin, evolution, Sr, O, Pb-isotope evidence, 84M/2869; *Islay*, recent submarine aragonite, magnesian calcite, hematite cements in gravel, 84M/1064; *Isle of Arran, Dippin sill*, hydrothermal Sr contamination, 84M/4358; *Leadhills*, macphersonite, new mineral, data, 84M/3243; *Leadhills, Susanna vein*, scotlandite, new mineral, data, 84M/3249; *Leadhills-Wanlockhead*, mining history, min. assemblages, mineralogy, 84M/1172; *Loch Doon intrusion*, assimilation, partial melting of continental crust, autolith, xenolith evidence, 84M/2258
—, TAYSIDE REGION, *Aberfeldy*, Dalradian baryte-sulphide mineralization, S-isotope study, 84M/4077; *Aberfeldy, Foss Ba-Zn-Pb deposit*, sphalerite compn., relation to deposition metamorphism, 84M/0850; *Glen Garry region*, early curvilinear fold structures, strain in Moine, 84M/3305; *Loch Tayside, Tomnadashan Cu deposit* and *Corrie Buie Pb veins*, sulphide min., 84M/1483
—, ORKNEY ISLANDS, *Hoy*, Summery volcanic 'neck', possible flow, 84M/2054; *Orcadian basin*, hydrocarbon minerals, distrib., 84M/0675
—, SHETLAND ISLANDS, *Unst*, chromite deposits, 84M/0921
—, WESTERN ISLES, *Shiant Isles*, sill complex, structure, 84M/4356; *South Harris*, gravity anomaly, 84M/1158
Scotlandite, *Scotland, Leadhills, Susanna vein*, new mineral, data, 84M/3249
Sea-water, tracers in, (book), 84M/0089; reaction with basalt, relation to origin of greenstones and related ore deposits, 84M/0230; interaction with basaltic glass at

Sea-water (*contd.*)
50 °C, exptl., EM/XPS study of early phases, 84M/0351; spectrophotometric detn. of Al traces in, modified extraction procedure, 84M/2416; photoreduction of Mn-oxides in, geochem., biol. implications, 84M/3022; solubility of calcite, aragonite in, 84M/3996; crystallization of apatite in, effect of time, 84M/3999; solubility of natural phosphate in, new data, 84M/4000; *Sweden, west Bergslagen*, Proterozoic, interaction with felsic volcanics, erratum, 84M/2992; *Hjulsjö*, Proterozoic, interaction with felsic volcanic rocks, high *RE* element mobility, evidence, implications, 84M/0618; *Iceland, Reykjanes*, interaction with basalt, probable cause of $CaCl_2$ brines, 84M/0516; *Red Sea*, in deeps, horizontal inhomogeneity, 84M/3021; *north* and *south Pacific Ocean*, partial pressure of CO_2 in, seasonal effects of *T* salinity, 84M/3020
SEA OF JAPAN, *Yamato ridge*, baryte concretions from, anals., 84M/3482
Sedimentary basins *v.* basins, sedimentary
—, deposits, *central Europe*, in Rhenohercynian belt, chem. compn., 84M/3265
—, environments, *southern Baltic Sea*, types of based on sorption props., 84M/4452
—, facies, variation and hydrocarbon reservoirs in continental sediments, predictive model, 84M/3467; *China, Guangdong, Qujiang-Renhua area*, in Upper Permian strata, 84M/1742
—, minerals *v.* minerals
—, processes, *Pacific Ocean, central Panama basin*, since Miocene, 84M/2174
—, rocks, differences in organic C/pyrite S ratio with modern marine sediments, new theory, 84M/0693; evenly-spaced pressure-solution seams, generation during late diagenesis, kinetic theory, 84M/1059; placers, geol., technology, economics, (book), 84M/1251; ancient microspheres, questionable origin, 84M/4135; reverse and normal chem. osmosis, origin of subsurface brines, comment, 84M/4137; reply, 84M/4138; destruction of secondary porosity, link with Al mobility, 84M/4445; *Scotland, Grangemouth area*, estuarine, Quaternary deposits, 84M/4447; *Spain, Biscay* and *Guipuzcoa prov.*, interbedded with volcanic rocks, fossil dating, 84M/3645; *central north Bulgaria*, Upper Cretaceous, volcaniclastic component in, 84M/2055; *Borino-Tešel graben*, Palaeogene, lithostratigraphy, 84M/1084; *China, Chaidamu basin, Hang-2 well*, mature, immature, comparison of aromatic homologous series compounds in, 84M/1796; *Japan*, Cretaceous Izumi group, sulphate minerals in, 84M/4573; *New Zealand, South Island, West Coast*, Tertiary, densities, 84M/1159; *North Sea*, Jurassic deltaic deposits, sedimentological, palaeontological anals., 84M/4446
—, systems, chem. equilibrium in, 84M/0362
Sedimentation, *Europe*, Palaeozoic in northern branch of Variscides, interpretation, 84M/3257; *Spain, Toledo, Tajo basin*, saline, cyclical character, 84M/3475; *Germany, Rheinische Schiefergebirge*, neritic in Lower/Middle Devonian, 84M/3258; *western Rheinisches Schiefergebirge* and *Belgium, Ardennes*, development in Variscan geosyncline, 84M/3264; *Switzerland, Lake Constance* [*Boden See*], rate fluxes, 84M/3944; *Hungary, Koros River, Csongrád borehole*, rates, relation to min., geochem. variations, 84M/1748; *Israel, Hula basin*, Pleistocene, rate, comparisons, 84M/2214; *USA, Vermont, Taconic sequence* and *Martinsburg formation*, rates, 84M/3495; *Barents Sea shelf*, evidence from quartz grain roundness, 84M/4453; *Pacific Ocean, East Mariana basin*, history, 84M/2337
Sedimentology, *Himalayas, Ghaggar* to *Markanda Rivers*, of exposed Siwalik group, 84M/3480; *north USA* and *west Canada*, playa lakes, 84M/4467
Sediments, subaqueous, detn. of dry bulk density, method, 84M/0054; rapid and precise anal. of $CaCO_3$ content, vacuum-gasometric method, 84M/0068; anoxic, rates of biogeochem. processes in, 84M/0595; diagenetic behaviour, crystallization sequences of sulphides, ore minerals in, 84M/1056; suspended in streams with very fine sediments, comments on calculation, 84M/1062; thermal maturation of reservoirs, 84M/1063; use in sorbing ^{226}Ra from oil-production brine, 84M/1534; detn. of Se traces by emission spectrometry and ICP, 84M/2437; simultaneous detn. of As, Sb, Bi by ICP emission spectrometry, 84M/2438; *RE* element content, behaviour in diagenesis, 84M/2812; pelitic in Rhenohercynian zone, min. compn., 84M/3267; end-member compns., partitioning according to source, objective technique, 84M/4143; *Norway, Bolstadfjord*, geochem. of Fe, Mn in, 84M/3937; *outer Oslofjord* and *northernmost Skagerrak*, Quaternary and bedrock geol., 84M/1985; *British Isles*, related to crustal development, Nd-isotope study, 84M/0596; *England, Cornwall, Fal estuary*, artificial diagenesis expts., 84M/2703; *Poland, Mazowsze-Lublin trough*, carboniferous, geochem. of B in, 84M/1758; *Belgium*, heavy mineral content, 84M/2207; *Vesder basin*, stratigraphy, lithogeochem. of Walhorn section, implications, 84M/1751; *Italy, Venice Lagoon* and *north Adriatic Sea*, fine, relationships between surface area and grain size, 84M/1077; *Sardinia, Sant'Antioco Isthmus*, Plio-Pleistocene, Fe, Mn, Zn, Pb, Ca content, 84M/1747; *Germany, Rhön*, Upper Bunter clayey sediments, weathering, 84M/1341; *Switzerland Germany, Lake Geneva* [*Lac Léman*] sum of DDT, PCB's, HCB in, 84M/3945; *Carpathians, West Tatra Mtns., Krížna nappe*, Upper Triassic-Lower Jurassic, lithological, geochem. characterization, 84M/0599; *Greece, Ermioni*, Mesozoic metalliferous from ophiolites, analogue of Recent mid-ocean ridge ferromanganese deposits, 84M/2849; *Santorini Island*, metalliferous assoc. with shallow submarine hydrothermal activity, geochem., 84M/0654; *Turkey, south west Antalya complex*, sedimentary history, 84M/0936; *Black Sea*, hydroxyacid content, geochem. indicator, 84M/0698; *Bulgaria, between Ogosta* and *Jantra rivers*, Mesozoic, min., genesis of clay component, 84M/1330; *India, Dharwar craton*, unusual early Archaean, geochem., 84M/2972; *Goa, Calangute beach*, heavy mineral assemblages in, 84M/3481; *Kerala*, opaline silica in Tertiary, 84M/2219; *China*, diamond-bearing, characteristics, 84M/3924; *Japan, Tokyo Bay*, polycyclic aromatic hydrocarbon levels in, trends, factors governing, 84M/4178; *New Zealand, Takitimu Mtns.*, Lower Permian interbedded volcaniclastic sediments/volcanic rocks, lithostratigraphy, 84M/1001; *New Hebrides* (*Vanuatu*), from subducted plate, Sr-isotopes, K, Rb, Sr balance, 84M/0514; *Egypt, Red Sea coast*, Middle Miocene, new data on stratigraphy, geochem., 84M/0603; *north Zambia*, stratigraphy, sedimentation, regional posn. of Mporokoso group, 84M/4325; *Namibia, Damara orogen*, common metamorphic sediments, chem. compn., 84M/3281; *South Africa, central Bushmanland*, highly deformed, stratigraphic interpretation, correlation of structurally separated, 84M/4326; *Canada, St Lawrence Estuary, off Rimouski*, B content, 84M/2979; *eastern* and *midwestern USA*, in settling ponds, prediction of extractable metals in, 84M/1516; *USA, East Coast*, terriginous near-shore, rates of I remineralization in, 84M/2981; *California, Great Valley sequence*, burial-metamorphosed volcanogenic, isotope geochem., 84M/2988; *Massachusetts, Buzzards Bay*, near-shore, $^{239,240}Pu$, ^{137}Cs diagenesis and mobility in, 84M/3019; *Montana, Glacier Natl. Park*, geol., stromatolites in Middle Proterozoic Belt supergroup, 84M/2226; *North Carolina, Blue Ridge province*, compositional layering in Late Precambrian, origin, significance, 84M/4342; *Oregon, Leone Lake*, reinterpretation as pyroclastic surge deposit, tectonic significance, 84M/4417; *Virginia, Chesapeake Bay*, organic C, S in, 84M/0610; *Washington*, coastal, polycyclic aromatic phase associations in, 84M/0326; *Mexico, continental margins*, present day formation of apatite in, 84M/0612; *Martinique*, subducted role in island arc magma genesis, isotopic evidence, 84M/4131; *Venezuela, Cariaco Trench*, hydroxyacid content, geochem. indicator, 84M/0698; *Peru, continental margin*, porewater fluoride in, 84M/2991; *North Sea*, C_{27},C_{28} triterpanes in, characterization, 84M/0700; *Red Sea, Atlantis II deep*, kerolite and anhydrite in, first occurrence, origin, 84M/0797; *Indian* and *Pacific Oceans*, Th content, 84M/0608; *east equatorial Pacific Ocean*, glacial-Holocene transition in, Mn-spike, 84M/3027; *East Pacific Rise, DSDP leg 65*, in contact with young oceanic crust, metamorphic processes in, 84M/2150; X-ray mineralogy, 84M/2151; *Galapagos mounds area*, min., geochem., 84M/2164; U series disequilibrium, isotope stratigraphy, attempt at chronology, 84M/2169; partition geochem., 84M/2168; *Galapagos rift zone*, chem. compn., 84M/2166; *central Panama basin*, lithology, compn., 84M/2174; *Panama basin, Costa Rica rift*, min., XRD study, 84M/2175; *Atlantic Ocean, Brazil Basin* and *Rio Grande Rise*, geochem., 84M/2990; *Chesapeake Bay, Delaware Bay* and *New York Bight*, continental shelf, source of organic N in, isotopic evidence, 84M/4181; *Nova Scotian Rise, HEBBLE area*,

Sediments (*contd.*)
resuspension in high energy area, sediment trap study, 84M/3491; *north west Atlantic* and *Panama Basin*, particle flux, reworking at deep-sea floor, estimates using $^{234}Th/^{238}U$ disequilibrium, 84M/4147; *Guatemala Basin, MANOP site H*, interfacial, interaction with Zn, application of adsorption data, 84M/0613; *Gulf of California*, min., inorganic geochem., 84M/2152; Recent hemipelagic, diagenesis of magnetic minerals in, 84M/3496; *Gulf of Mexico*, evidence for ocean transport/deposition of Pu, 84M/0320; *Gulf of Tadjoura*, Quaternary, tectonics, 84M/0940
—, carbonate, organic matter content, relation to petroleum occurrence, 84M/0704; *Italy, Sicily*, Miocene, petr., palaeoenvironment, evidence for periodic emergence, 84M/1078; *South Australia, offshore Port Pirie*, heavy-metal enrichment, bacterial sulphate reduction, Fe-sulphide formation in, 84M/0319
—, deep sea, effects of diagenetic recrystallization on $^{18}O/^{16}O$ values, 84M/2961
—, fluvial, ovoidal calcite sand crystals from Miocene, 84M/0869
—, freshwater, detn. of acid-reactive sulphides in, 84M/1243
—, glacial, assocn. with sulphate evaporites, stromatolitic carbonates, comparison of Australian, Antarctic, 84M/3490
—, lacustrine, tr. element speciation in, 84M/1522; decompn. of organic matter in, 84M/3931; *United Kingdom, Rostherne Mere*, hydroxyacid content, geochem. indicator, 84M/0698; *Austria, Attersee*, heavy metal pollution in, chronology, 84M/2618; *Italy, Lake Maggiore*, vivianite formation in, Mössbauer, chem. studies, 84M/3225; *Spain, La Mancha, Laguna de Tirez*, growth features of Na-, Mg-salts in, 84M/1074; *Rwanda/Zaïre, Lake Kivu*, N-alkanes in, chem. compn., 84M/0692; *Namibia, Damara orogen*, Upper Proterozoic playa-lake deposits, sedimentology, min., 84M/3279; *USA, Oregon, Lake Albert*, clay minerals in, 84M/1331
—, marine, burial of organic C, pyrite S in over Phanerozoic time, new theory, 84M/0693; methane, hydrocarbon gases in, 84M/0705; pore water/solid phase diagenetic model for Mn in, 84M/1756; *Black Sea, Bulgarian shelf*, heavy minerals in sands, compn., distrib., 84M/1083; *north Atlantic Ocean*, multicomponent electrolytic diffusion corrections for, 84M/1757; *Pacific Ocean, Baja California coast* and *Guatemala basin*, hemipelagic marine, tr. metal remobilization in interstitial waters, 84M/1781; *San Pedro basin*, Recent marine, molecular fossils generated by hydrous pyrolysis of kerogen, 84M/4182; *Gulf of Mexico*, areal extent of drilling fluids in marine, assessment by pyrolysis, Ba distrib., 84M/1536; *DSDP*, Sr-isotopes in interstitial waters, 84M/3028
—, pelagic, subduction of, implications for *Mariana Islands* Ce-anomalous basalt origins, 84M/4123; *Mediterranean Sea, Strabo trench*, recent metallogenesis of, 84M/2145; *north Atlantic Ocean*, roles of advection, decantation in flux velocity, chem. compn., 84M/1743; *Pacific Ocean, Galapagos mounds area*, hydrothermal and pelagic, major, minor elements in, 84M/2167
—, reservoir, *USA, South Carolina*, reversible ion-exchange fixation of ^{137}Cs, later mobilization, 84M/0327
—, stream, *Norway, Oppland-Hedmark region*, HNO_3-soluble heavy metals in, 84M/4183; *Finland, Petäinen area*, metal content, min. compn., effect of Outokumpu area rocks on, 84M/0671; *Britain*, distrib. of monazite in panned, palaeogeographic implications, 84M/3472
—, swamp, *Denmark, Skjernå delta*, formation of pyrite, siderite in, 84M/0598
Seismic sections, use in constucting balanced cross sections in areas of extensional tectonics, 84M/1950
—, studies, shallow earthquake source, and continental fault structure, 84M/2286; seismic tomography, application in mineral exploration, 84M/2559; earthquake data anal., Swedish example, 84M/3611; *south west England*, major crustal reflectors beneath, 84M/3584; *Scotland*, MOIST and continuity of crustal reflector geometry along Caledonian-Appalachian orogen, 84M/3585; *USSR, Mendeleyev volcano*, seismic activity, relation to chem. compn. of thermal waters, 84M/4164; *Italy, Phlegrean Fields*, micro-earthquake activity, 84M/3422; *northern Greece* and *Turkey*, earthquake risk predictions, implications from new ideas of North Anatolian fault movement, 84M/1955; *Turkey*, lineaments from Landsat imagery, relation to earthquake epicentres, 84M/0237; *Japan, Kii Peninsula*, constraint on depth of basalt-eclogite transition in subducting oceanic crust, 84M/4556; *East Africa, Lakes Tanganyika* and *Malawi*, rift lakes, new data, implications, 84M/3615; *Namibia, Damara orogen*, deep seismic sounding, 84M/3294; *Canada, Vancouver Island*, CO-CRUST seismic study of convergent margin, 84M/1196; *USA, California, Long Valley caldera area*, dyke intrusion, cause of earthquakes, evidence, 84M/3323; *North Sea, Erlend volcanic complex*, internal structure, 84M/3341; *Pacific Ocean, Tonga subduction zone*, deep seismicity, modes of deformation, 84M/4557
Selenates, synthetic $SrSeO_4$, structure, 84M/3838
Selenogalena *v.* galena
Selenium, geochem. reference sample content, detn. by hydride-generation atomic absorption, 84M/0721; traces in soils, sediments, detn. by emission spectrometry and ICP, 84M/2437; distrib. between galena, sphalerite, 84M/2701; from Na_2SeO_4, sorption by basalt, 84M/3971; *Wales, Aberystwyth* and *Halkyn Mtn. areas*, soil content, reference to bedrock, sulphide ore contamination, 84M/1515
—, compounds, *Belgium, Daverdisse*, unident. in quartzites, quartz veins, 84M/1484
Sellaite, *Brazil, Bahia, Pedra Preta quarry*, largest known crystals, morphology, props., 84M/1920
Senaite, *USA, Colorado, St. Peter's Dome*, Zn-, Y-bearing, anals., comparison with Brazilian, 84M/1882
Senarmontite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568
Sepiolite, oxidation of hydrocortisone by, role of Fe^{3+}, 84M/1312; transformation to fibrous silica gel by HCl attack, 84M/3705; *Japan, Mie Pref., Mie Mine*, occurrence, X-ray data, 84M/4598
—, iron-, *Japan, Seikan Tunnel*, discovery, ident., props., 84M/0124
Sericite *v.* mica
Serpentine, dehydration, role of secondary min. formation in ultramafic rocks, 84M/0469; beam damage in the electron microscope, 84M/2725; *Finland, Lapland*, decorative, occurrences, 84M/4055; *Yugoslavia, luner Dinarides ophiolite complex*, precious in ultramafic rocks, 84M/2139; *Zaïre*, aluminian, with kyanite, florencite in hydrothermal assemblages, petrogenesis, 84M/1856
—, antigorite, high-resolution TEM study, 84M/0775; *Brazil*, thermal transformation, electron optical study, 84M/4027
—, lizardite, high-resolution TEM study, 84M/0775; Ni-substituted, interpretation of optical absorption spectrum, 84M/3812; *South Africa, Masuli mine*, rapid XRD detn. of chrysotile/lizardite ratios in asbestos-bearing serpentinites, 84M/3169
Serpentinites, asbestos-bearing, rapid XRD detn. of chrysotile/lizardite ratios in, 84M/3169; *Poland, Szklary massif*, occurrence of chrysoprase, chalcedony, opal in, geol., 84M/4051; *USSR, Karelia, Vozhminski massif*, vein mineralization in, 84M/3221; *Japan, Sanbagawa belt* and *Kii Peninsula*, metamorphism of, 84M/1141; *Papua New Guinea, Port Moresby*, exposures, details, geol. excursion guide, 84M/0944; *Western Australia, Mount Keith*, pyrrhotite-pentlandite - tochilinite - magnetite - magnesite textures, interpretation, 84M/0848
Serpentinization, *Scotland*, in Highland Border suite, stable isotope study, 84M/0631; *Sultanate of Oman*, significance of precipitated Ca-,$Mg(OH)_2$, 84M/3205
Serpierite, *Germany, Ramsbeck*, occurrence, 84M/4560
Shakhovite, chem. compn., unit cell, crystal structure, new data, 84M/3829
Shale, petr., application of backscattered electron microscopy, 84M/0064; hydrothermal reactions with Sr, simulated transuranic elements, nuclear waste implications, 84M/1542; diagenesis, influence of magmatic intrusions, 84M/3503; *Norway, Svalbard, Janusfjellet formation*, black, U, Th, K distrib. in, 84M/2964; *Poland, Kosarzyska nappe*, tectonic evolution, 84M/3312; *Lubin area*, precious metal bearing from Zechstein Cu deposits, 84M/0256; *France, Alps*, planar, linear fabrics in development, mineralogical control, 84M/4316; *Germany, Aachen region*, Palaeozoic geochem. studies, 84M/1761; *Dill syncline*, Upper Devonian, lithology, 84M/2210; *Austria, Salzburg, Northern Calcareous Alps*, weakly metamorphosed, interpretation of K/Ar, Rb/Sr data from fine fractions, 84M/3647; *Italy, Apennines*, soluble, insoluble organic matter in, 84M/0701; *India, Bihar, Amjhore*, black, geochem., 84M/2824; *Indonesia, Kalimantan, Mahakam Delta*, biol. marker study, 84M/3056

Shale (*contd.*)
Australia, Nd-isotope anal., evidence for growth of continent through geol. time, 84M/3665; *Western Australia*, *Pilbara area*, Archaean, geochem., 84M/2975; *Nigeria*, *Anambra basin*, *Akukwa-2 well*, Late Cretaceous, Early Tertiary, petroleum geochem., 84M/1793; *South Africa*, Archaean, geochem. evolution, 84M/2970; *Canada*, *NWT*, *Pine Point area*, fluid migration from compacting, geophys. log documentation, 84M/2557; *USA*, *Appalachian Basin*, Devonian, clay min., 84M/3769; *North Sea*, Jurassic, interlayered clay stacks in, 84M/2480
Shearing *v.* rock deformation
Shear strength, measurements at high *T*, *P*, 84M/4543
—, zones *v.* rock deformation
Shcherbinaite, *USSR*, *Bezymyanny volcano* and *El Salvador*, *Izalco volcano*, crystal chem., 84M/3202
Shonkinitic rocks, *India*, *Tamil Nadu*, *Salem*, coexisting phases from, min. chem., 84M/3379
Shortite, second harmonic of radiation, new diagnostic indicator of, 84M/3578
Shoshonite, *Italy*, *north western Alps*, Oligocene volcanic, petrogenesis, 84M/4106; *Greece*, *Lakmon Mtns.*, Triassic, differences in primary geochem. and sheet silicate alteration products, 84M/0562; *Lesbos*, petrogenesis, inferences from zoned pyroxenes in lavas, 84M/4219
Shrinkage pores, in lime mudstones, re-evaluation, 84M/1061
Siderite, standard for EM, electron microprobe anal., 84M/0728; sedimentary spherules, SEM study, 84M/1057; quantitative XRD anal., 84M/2407; *Denmark*, *Skjernå delta*, formation in swamp sediments, 84M/0598
Sideronatrite, *Poland*, *Lower Silesia*, *Turoszów*, occurrence, props., 84M/1907; *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568
Siegenite *v.* linnaeite
SIERRA LEONE, *Guma Water* and *Senduma*, erlichmanite-laurite series, chem., reflectance, cell, 84M/0858
Silcrete, *Australia*, *NSW*, *Cobar area*, hand specimen descriptions, anals., 84M/3489; *South Australia*, age, origin, 84M/3488; *Western Australia*, *Yilgarn block*, cemented by allophane or kaolinite and opal-CT, 84M/1095; *Africa*, *Kalahari basin* and *Cape coastal zone*, petrography, diagenesis, 84M/2216
Silica, amorphous, solubility in aqueous salt soln. at 25°-300°C, calc. by effective density of water concept, 84M/0369; cauliflower-like sedimentary matrix, SEM study, 84M/1057; layered forms, 84M/1378; dissolution of biogenic, production of more general model, 84M/1562; polymorphs, n.m.r. study, 84M/2530; amorphous, solubility in H_2O, HCl, HNO_3 at 100°-400°C, 101·3 MPa, 84M/2749; compacted glass, vol. relaxation, model for conservation of natural diaplectic glass, 84M/4032; polymorphs, relationship between RI, density, 84M/4526; amorphous, thermal conductivity under He as function of *T*, P_{He}, 84M/4532; *USSR*, *Krivoy Roy*, *Ternovka astrobleme*, high-*P* phases in, 84M/4208; *Australia*, *Queensland*, *Fraser Island*, in lake, creek waters, 84M/3016; *Canada*, *Quebec*, distrib. in podzolic soils, effects, 84M/1345; *USA*, *Virginia*, *Augusta*, *Bath*, *Highland* and *Rockbridge Counties*, resources, 84M/1512; *Atlantic Ocean*, *Amazon continental shelf*, biol. uptake, accumulation, 84M/3032; *Pacific Ocean*, *Costa Rica rift*, secondary phases, O-isotope compn., 84M/2177
—, gel, *v.* gels
Silicate liquids, ferric/ferrous ratio of natural equilibrated in air, 84M/1558; natural, Gibbs free energy of mixing, 84M/2664
—, minerals, heat capacity, relative and calorimetric enthalpy, empirical prediction, 84M/0334
—, rocks, classical chem. anal., old and new, 84M/2411; detn. of ferrous Fe in, 84M/2412; automatic anal. of major elements by XRF with fused disc samples, 84M/2441
—, tetrahedra, polymerization in glasses, melts, aqueous solns., 84M/2497
Silicates, bacterial breakdown, 84M/0361; $LiAlSiO_4$, $LiGaSiO_4$, phase changes at high *T*, *P*, cryst., 84M/0367; spectrophotometric detn. of P in, single reagent method for, 84M/2417; rock-forming, high-resolution ^{29}Si n.m.r. spectroscopic studies, 84M/2495; simulating structures, comment, 84M/2517; ^{29}Si NMR chem. shifts, correlation with orbital energy differences, 84M/3779; $NaBaNd(Si_2O_7)$, crystal structure, 84M/3797; *Spain*, *Huelva*, *La Garranchosa*, calc-silicate nodules in marbles, compn., texture, 84M/3499
—, framework, structural division into classes pyknolites, clathrasils, zeolites, 84M/1381; classification and enumeration of 4-connected 3-D nets, 84M/3781
—, layer, noncentric, ident. by optical 2nd harmonic generation technique, 84M/3809; *USA*, *California*, *Salton Sea*, *Elmore no. 1 borehole*, allogenic in, 84M/3168
—, phyllosilicates, distinction of tetrahedrally/octahedrally coordinated Al in by NMR spectroscopy, 84M/3807; structural transitions within, implications, 84M/3811; *south east Australia*, in Palaeozoic stratiform sulphide deposits, 84M/4236
—, tectosilicates, slipping scheme of double-crankshaft structures, min. implications, 84M/0179
Silicic acid *v.* acids, silicic
—, rocks, peralkaline, tr. element sanidine/glass distrib. coefficients, implications for peralkaline petrogenesis, 84M/2860
—, volcanism *v.* volcanism
Siliciclastic rocks, *India*, *Orissa*, *Surgutaria*, petr., 84M/1093
Silicification, *South Africa*, *Malmani dolomite*, Early Proterozoic, palaeohydrological model, 84M/3479
Siliceous rocks, *Spain*, *Tagus basin*, new textures for α-quartz, α-cristobalite, α-tridymite, genetic interpretation, 84M/3474; *northern Japan*, Neogene, petr., diagenetic changes, 84M/2221
Silicon, detn., anal. method, 84M/0070; future in USA and World economy, (book), 84M/1256; new standard XRD reference powder, 84M/2374; translocated inorganic form in Bs podzol, extraction, 84M/3727; *New Zealand*, *Taieri Estuary*, mixing, relation to colloid stability, surface props., 84M/0659
—, compounds, silicon carbide, crystal growth parameters, methods for quantitative estimates, example, 84M/0373; SiC, conditions for direct structure imaging, erratum, 84M/2536; carbide and Si_3N_4, detn., anal. method, 84M/0070; Si_3N_4, SiC ceramics, phase equilibria, 84M/0379; dioxide, detn., anal. method, 84M/0070; SiO_2, thermal expansion data, 84M/4537; nitride and oxynitride, structure, effect of *T*, *P* on, 84M/1346
—, ions, Si^{4+}, diffusivity in jadeitic melt, 84M/2636
Sillimanite, bacterial breakdown, 84M/0361; dissociation of *c* dislocations, 84M/0767; B content, 84M/3128; *USSR*, *Tava*, *Ular granitoid massif*, formation in contact aureole, 84M/1829; *Germany*, *Bavarian Forest*, in granite, petr., 84M/4319; *Czechoslovakia*, *Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253; *Canada*, *Ontario*, *Geco mine*, direct derivation from kaolinitic precursor, evidence, 84M/0768; *south east Peru*, phenocrysts in ash-flow tuffs, 84M/2954
—, -bearing rocks, *USA*, *New Mexico*, with coexisting paragonite, quartz, 84M/4230
Sills, *Norway*, *Hadeland*, *Gran*, camptonite and maenaite, 84M/4355; *England*, *Derbyshire*, *Ible*, hydrothermal alteration of dolerite wallrock within, 84M/4473; *Potluck sill*, petr., geochem., 84M/4367; *Scotland*, *Isle of Arran*, *Dippin sill*, hydrothermal Sr contamination, 84M/4358; *Isle of Skye*, *Sconser quarry*, elemental mobility during hydrothermal alteration, 84M/0619; *Outer Hebrides*, *Shiant Isles*, sill complex, structure, 84M/4356; *Portugal*, *Pazes*, gabbro, anals., comparison with Beja gabbros, 84M/3456; *Oman*, *Oman Mtns.*, alkali wehrlite, petr., 84M/2026; *India*, *Madhya Pradesh*, *Chalka-Delakhari sill*, magma mixing in, 84M/2027; *USA*, *Minnesota*, *Deer Lake complex*, layered, sulphide min. and S-isotope geochem., 84M/1698; *Oregon*, *Coast Range*, gabbro, differentiation by crystallization-zone settling, 84M/1012; *Brazil*, *Paranà basin*, basalt, low-*P* evolution, borehole evidence, 84M/4402
Silt, catalytic synthesis of humic substances by, 84M/1288; *USA*, *east Texas*, in lignite overburden, min. transformations during weathering, 84M/1335
Siltstone, complex amorphous material in Devonian, possible origin, 84M/0137
Silurian rocks, *Norway*, *Oslo region*, geol., 84M/4309; Silurian rocks, *Scotland*, stratigraphy, 84M/0911; structure, palaeogeog., 84M/0912; *Ireland*, *Silvermines* and *Ballynoe deposits*, lithostratigraphy, 84M/1452; *Australia*, *Victoria*, *Upper Murray Valley*, high-Si igneous rocks, geol., geochem., origin, 84M/4114
Silver, content in geochem. reference materials by mass spectrometric isotope dilution anal., 84M/0723; future in USA and World economy, (book), 84M/1256; substitution into synthetic Zn-, Cd-, Fe-tetrahedrites, 84M/1591; spectrophotometric detn. by flow-injection anal., 84M/2419; activity in

Silver (*contd.*)
Au-Ag alloys, reproducibility, 84M/2680; native, microhardness, application to ore deposition, 84M/3571; coprecipitation with Au at T = 100°-200°C, 84M/3985; *Wales*, *Aeron* and *Ystwyth Valleys*, soil concentrations, dispersal from derelict mine sites, 84M/1525; *eastern USSR*, native from volcanogenic hydrothermal deposit, micromorphology, internal struct. index features, 84M/0231; *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485; *Western Australia*, *Yilgarn Block*, mobility in lateritic weathering profiles, 84M/4142; *South Africa*, *Witwatersrand* and *Barberton*, in single Au grains, implications, uses, 84M/1870; *Canada*, *British Columbia*, biogeochem., prelim. studies, 84M/4185; *Mexico*, *Guadalcazar granite*, high content in quartz fluid inclusions, 84M/0534; *north east Pacific Ocean*, distribs., fluxes, 84M/3029
—, compounds, new $AgInSe_2$ phase, synthesis at high-P, T, 84M/0426; Ag_2S, electronic structure 84M/1391; Ag_2S, use in SO_2 prepn. for S-isotope anal., 84M/3686; *Belgium*, *Daverdisse*, unident. in quartzites, quartz veins, 84M/1484
—, deposits, *Sweden*, *Bergslagen*, *Hällefors region*, paragenesis, 84M/1436; *Channel Islands*, *Sark*, *Sark's Hope mine*, min., microprobe anals., 84M/0853; *Portugal*, *Neves Corvo*, exhalative, geol. setting, 84M/2565; *USA*, *Montana* and *Idaho*, sandstone (Revett) type, genesis, 84M/1480
—, isotopes, compn. in Cape York, Grant iron meteorites, 84M/3113
—, minerals, *China*, *Meng'en deposit*, occurrence with galena, sphalerite, 84M/4261
Simonite, cryst. struct., 84M/0192
Simpsonite, *USSR*, *Kola Peninsula*, grains with SnO_2 inclusions in granitic pegmatites, 84M/0841
SIMS *v.* spectrometry, specimen isolated ion mass
Sinhalite, gemmological props., ident., discovery, 84M/1647
Skarns, hydrothermal reactions of Sn during formation, 84M/3859; *Sweden*, *Hjulsjö area*, K/Ar, Rb/Sr data, 84M/0009; *east China*, stratabound deposits, 84M/1424; *Japan*, *Kaizuki Yama*, duration of formation, quasi steady-state model for, 84M/1112; *Australia*, *NSW*, *Brown's Creek*, Cu minerals, Au in, 84M/3912; *Queensland*, *Mary Kathleen*, *formation*, *geochron.*, 84M/0273; *Tasmania*, *Mt. Lindsay*, zoned Sn-W-F-Be, geol., geochem., 84M/3509; *USA*, *New York*, *Westport area*, reaction skarns between quartz and olivine-bearing rocks, 84M/1113; errata, 84M/1114
Skolite *v.* clay minerals
Skutterudite, *Iran*, *Talmessi* and *Meskani*, occurrence, geol., min., 84M/3882
Skylab photography, *USA*, *Colorado*, *Western Pass area*, use in min. exploration, 84M/0240
Slags, blast-furnace, platy phlogopite from, chem., struct., opt., 84M/1620; from Cu converter, occurrence of Ni- and Sn-rich minerals in, 84M/2670
Slate, *France*, *Alps*, planar, linear fabrics in, development, mineralogical control, 84M/4316; *South Georgia*, *Cooper Bay-Wirik Bay area*, geol., 84M/1144
Sludges, waste, detn. of acid-reactive sulphides in, 84M/1243
Smaltite, *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485
Smectite, transformation to kaolinite in naturally acid soil systems, struct., thermodynamics, 84M/0101; stability in weathering conditions, 84M/0114; interactions with polymers in aqueous systems, 84M/1265; charge heterogeneity, 84M/1307; effect of dithionite/citrate/bicarbonate treatment, Mössbauer study, 84M/3715; near-IR spectra of H_2O molecules, effects of layer charge on, 84M/3728; intergrade, differentiation from chlorite, by soln. stability criteria, 84M/3731; interactions with riboflavin, 84M/3748; exchanged with mono- and biprotonated 1,4-diazobicyclo(2,2,2)-octane, surface props., 84M/3750; dioctahedral, distrib. of octahedral cations in 2:1 layers, oblique-texture electron diffraction study, 84M/3751; *Japan*, *Kyushu*, *Ariake Bay*, in paddy soils from marine alluvium, swelling, min., 84M/0102; *Bolivia*, authigenic on diatom frustules from saline lakes, 84M/0130; *Red Sea*, *Atlantis II Deep*, O-isotope geothermometry, origin, 84M/2976; *Mars*, probable soil analogues, simulated Viking biol. expts., 84M/3075
—, beidellite, *Japan*, *Shizuoka Pref.*, *Seigoshi mine*, occurrence, data, 84M/1339
—, hectorite, parameters of induced thermoluminescence spectrum, 84M/2462; complexes with Co(II)-, and Ni(II) tri- and dimethylphosphine, 84M/3747
—, montmorillonite, portion of layers in samples, X-ray and optical studies, 84M/0113; typology of series formed in active geothermal areas, 84M/0126; bacterial breakdown, 84M/0361; catalysis by, 84M/1267; catalysts for ethylene hydration, 84M/1268; acid-treated, reaction products of organic dye molecules with, 84M/1271; interstratified with illite, component layers, 84M/1274; regularly interstratified with mica, chlorite, hydrothermal syntheses, 84M/1277; ideal mixing of atoms on homological sites, chem., thermodynamic consequences, 84M/1283; Na-, adsorption of Cd^{2+}, Cu^{2+} at low surface coverage, 84M/1285; Ca-ethylammonium mixtures, mixing-demixing behaviour, 84M/1295; Na-, Li-, adsorbed water on reduced charge, IR study, 84M/1306; transformation of limonene on, interlayer cations as reaction directors, 84M/1313; Cu^{2+}-hexadecylpyridinium-, hydration state of Cu^{2+} in, ESR study, 84M/1314; adsorbed thiolane, tetramethylene sulphoxide, IR spectra, 84M/1316; adsorption of quinoline from aqueous solns., 84M/1317; cross-linked and simply exchanged, sorption and isomerization of normal olefins on, 84M/1318; Al-, reactions of alcohols with alkenes over, 84M/1319; interlayered with cationic oxyaluminium pillars, phys., chem. props., 84M/1321; interaction with poliovirus in PO_4-buffered saline, 84M/1523; regular instratification with mica, synthesis, formation mechanism, 84M/1623; mixed layer with kaolin, synthesis, 84M/1625; parameters of induced thermoluminescence spectrum, 84M/2462; complexes with amino acids, electrical props., 84M/2466; alkali, alkaline earth forms, hydrolysis in dil. solns., 84M/3706; thermal stability of cross-linked from fluoro-hydroxy-Al and hydroxy-Al compounds, 84M/3720; hydrolysis kinetics of organic chemicals on surface, relation to moisture content, 84M/3741; adsorption, degradation of fungicide Fenarimol, 84M/3749; modified with aliphatic amine salts, sorption props., 84M/3754; *USSR*, *Vilyui syneclise*, volcanic origin, props., 84M/0111; *Portugal*, *Braga*, new Portuguese occurrence, props., 84M/2481; *Czechoslovakia*, *Jelšový Potok* and *Askangel*, surface and catalytic activity, 84M/0099; *Greece*, *Kimolos Island*, props., smectite crystal chem., 84M/2475; *Japan*, *Akita Pref.*, *Matsuki mine*, relationship between X-ray basal reflections, interlayer cations, 84M/1278; *Kagoshima Pref.*, *Kinzan*, regularly interstratified mineral in altered andesite, 84M/0125; *Niigata Pref.*, *Nakajo deposit*, exchange cations, structural formulae, 84M/1281; *USA*, *Wyoming*, and *Japan*, formation, transformation, 84M/1282; *Wyoming*, *Upton*, sorption of Yb, effect of P, 84M/1540
—, saponite, hydrothermal reactivity, 84M/1297; IR OH-stretch bands in, influences of electronic configuration, site of charge compensation, 84M/2520; *Pacific Ocean*, *Costa Rica rift*, in layer 2 basalt, Mössbauer study, 84M/2183
—, volkonskoite, earlier discovery, 84M/3171; *Jordan*, Fe free, occurrence, props., 84M/2468
Smithsonite, use in Indian medicine, 84M/1527; *USA*, *Arizona*, *Glove mine*, occurrence, 84M/4609; *USA*, *Arizona*, *Silver Bill mine*, occurrence, 84M/2329; *USA*, *New Jersey*, *Franklin*, in Buckwheat dolomite, 84M/2320; *v.* also calamine
Smythite, *Germany*, *Clara mine*, occurrence, paragenesis, 84M/4562
Snow, *Antarctica*, Pb in recent, and two centuries old firn, 84M/2623
Soapstone, *Yugoslavia*, *Inner Dinarides ophiolite complex*, in ultramafic rocks, 84M/2139
Sobolevite, *USSR*, *Kola Peninsula*, *Mt Alluaiv*, new mineral, props., 84M/1939
Sobolevskite, *Poland*, *Lubin* and *Polkowice mines*, in Zechstein Cu deposits, 84M/3191
Soda ash, future in USA and World economy (book), 84M/1256
Sodalite, transparent, gemmological props., ident., discovery, 84M/1647; structural transitions of, 84M/3818; *Canada*, *Ontario*, *Princess mine*, crystal structure, application to other sodalite group minerals, 84M/3819
—, group, structure, effects of T, P on, 84M/1346
—, hackmanite, *Canada*, *Quebec*, *Mont St Hilaire*, crystal structure, 84M/1379
—, hydrosodalite, structure motion of H_2O OH groups, 84M/1380; structure, low-T study, 84M/3820
—, -like minerals, aluminate sodalite $Ca_8[Al_{12}O_{24}](WO_4)_2$, structure, 84M/3833
Sodium, in geol. samples, anal by nuclear method, 84M/1249; in pelecypod shells, AAS anal., 84M/1745; inter-diffusion in alkali feldspars, diffusion couple expts

odium (*contd.*)
84M/2662; uptake by calcite, 84M/2705; detn. in fossil gastropods, bivalves, 84M/2838
–, compounds, Na-borates in system $NaOH-B_2O_3-H_2O$ at 250°C, XRD study, 84M/2695; low-*T* $NaCaPO_4$, crystal structure, 84M/1404; NaCl brine, solubility of noble gases in, 84M/0365; aqueous NaCl soln., solubility of quartz in, calculation, 84M/0366; NaCl, apparent, lattice and radiative thermal conductivity at 300 to 1500°K, *P* to 5-6 GPa, 84M/4530; $NaClO_3$ crystals in aqueous soln., growth and dissolution rates, 84M/3965; Au solubility in NaCl, NaF, Na_2CO_3, $NaHCO_3$ at $P =$ 1000 kg/cm^2, 84M/2681; Na_2O, detn., anal. method, 84M/0070; *Spain, La Mancha, Laguna de Tierez*, growth of salts in recent playa lake, 84M/1074
oils, extraction and chem. anal. of interstitial water, 84M/0067; rapid and precise anal. of $CaCO_3$ content, vacuum-gasometric method, 84M/0068; rapid removal of gypsum from, method, 84M/0073; solubility and availability of Fe, effect of redox, 84M/0095; calcareous, solubility and availability of Mn in, effect of redox, 84M/0096; noncalcareous, adsorption of Sr-isotopes, exchangeable ions, soln. compn. effects, 84M/0313; effect of pH on Pb, Cu, Zn, Ni adsorption, 84M/0314; and calcretes in Quaternary limestones, structures, processes, applications, 84M/1092; water-logged, detn. of acid-reactive sulphides in, 84M/1243; extraction of microelements from organic matter, use of Na-hypochlorite, 84M/1284; effects of exchangeable cations on mineral weathering, 84M/1287; catalytic synthesis of humic substances by, 84M/1288; concentration of Fe-oxides, 5-*M*-NaOH method, 84M/1294; classification, use of palygorskite as diagnostic criterion, 84M/1323; tr. element speciation in, 84M/1522; use in sorbing ^{226}Ra from oil-production brine 84M/1534; geochem. exploration samples, estimation of volatile S content, rapid method, 84M/1812; detn. of Cu, Pb, Cd, Ni, Co in EDTA extracts by AAS, 84M/2432; detn. of As in by hybrid AAS, 84M/2433; detn. of Fe^{2+} in, 84M/2413; detn. of As by non-dispersive atomic-fluorescence spectrometry, 84M/2434; detn. of Se traces by emission spectrometry and ICP, 84M/2437; simultaneous detn. of As, Sb, Sb, Bi traces by ICP emission spectrometry, 84M/2438; thermal gradients in, effect on radon/thoron exhalation, 84M/2963; thin sections, motorized grinder for, 84M/3670; podzol B horizons, ferrihydrite in pyrophosphate extracts, 84M/3702; adsorption-desorption and/or precipitation-dissolution processes of Zn, 84M/3709; immiscible displacement liquids, accuracy of, 84M/3710; rapid estimation of Fe-oxides by spectrophotometric anal., 84M/3711; oven drying, pretreatment for surface-area detns., 84M/3712; effect of dithionite/citrate/bicarbonate treatment, Mössbauer study, 84M/3715; podzol Bs horizon, extraction of inorganic forms of translocated Al, Fe, Si, 84M/3727; external surface areas, Atterberg limits as indices, 84M/3756; colour and hematite staining, quantitative relationships, 84M/3773; terra rossa, contribution to from lichen, cyanobacteria weathering of limestone, dolomite, 84M/3774; acidification, acidic deposition and internal proton sources in, 84M/3933; *Britain*, normal Pb content, graphical estimation, 84M/0315; *England*, Cu, Cd, Pb, Zn in urban, nationwide survey, 84M/1517; *Avon, Avonmouth*, Cd, Zn, Pb concentrations near smelter, 84M/1518; *Scotland*, total Pb concentrations in, 84M/3938; extractable Pb concentrations in, 84M/3939; *Wales*, from Lower Palaeozoic sedimentary rocks, origin of vermiculite in, 84M/0136; *Aberystwyth* and *Halkyn Mtn. area*, Se content, reference to bedrock, sulphide ore contamination, 84M/1515; *Aeron* and *Ystwyth Valleys*, Ag concentrations, dispersal from derelict mine sites, 84M/1525; *Belgium, central Ardennes*, occurrence of goethite, lepidocrocite in brown, implications, 84M/1325; *Denmark* and *Tanzania*, phosphate adsorption, effects of Fe-oxides on, 84M/1301; *Germany, Kyffhäuser Mtns.*, gypsum rendzinas, chem. anals., 84M/2479; *Tharandt-Grillenburger Wald*, soils of Cretaceous sandstone area, 84M/0138; *Italy, Bologna, Lizzano in Belvedere*, 14Å clay min., in podzolic, characteristics, 84M/0135; *Czechoslovakia, Slovakia*, in central neovolcanic region, min. compn., 84M/0134; rubification of, Mössbauer study, 84M/3767; *Saudi Arabia*, from central alluvial basins, min., 84M/0140; *eastern Saudi Arabia*, min., 84M/0141; *Korea*, intergradient vermiculite-kaolin mineral in, 84M/1324; *Papua New Guinea, Enga Prov.*, assessment for development, 84M/0142; *New Zealand*, from rhyolitic volcanic ash, weathering sequence, implications of allophane, halloysite, 84M/0144; *Sudan, Gezira*, min. of major, 84M/3777; *south west Nigeria, Ifewara area*, lateritic in greenschist-amphibolite belt, factors influencing geochem., 84M/3040; *Canada* and *east Malaysia*, Na-pyrophosphate extracts, removal of suspended material from, 84M/3716; *Canada, Quebec*, podzolic, distrib. of silica, sesquioxides, clay in, effects on subsoil cementation, 84M/1345; *Mont Jaques Cartier*, halloysite from strongly weathered, 84M/0145; *Rouyn area*, developed on glacial-lacustrine sediments, tr. element variations in, 84M/4145; *USA, Arizona, Tucson basin*, CO_2 from, stable-isotope compn., 84M/1738; *California*, ^{10}Be concentration, long-term fate of particle-reactive nuclides in profiles, 84M/1759; *Colorado, Piceance Creek basin*, adsorption of Hg, 84M/0316; *north west Washington*, from glacial-marine drift, min. transformations in, 84M/3776; *southern Brazil*, kaolinitic, classification, application of goethite, hematite in climosequence, 84M/0146; *Argentina*, occurrence of Mg-bearing calcites in Pampean, 84M/0147
–, surveys, *England, Cornwall, Lizard complex*, geochem., aid to mapping and interpretation, 84M/3033
–, systems, kaolinite, gibbsite, Al-hydroxy interlayered vermiculite systems, stability relationships in, 84M/3778
Solar gas *v.* gases
–, system *v.* planets
Solfataras, origins and effects, inferences from Aegean hyalodacites, 84M/4109
SOLOMON ISLANDS, Mn-oxide mineralogy in exhalative environment, 84M/1880; intrinsic f_{O_2} megacryst ilmenite, upper mantle implications, 84M/4383
Sols, Fe substitution in aluminosilicate synthesized at low pH, 84M/2467
Solutions, aqueous, Al coordination in, comments on Al avoidance principle, 84M/2497
Solvents, and heavy liquids, recovery, economical method, 84M/0060
Sonolite, *USA, North Carolina, Bald Knob*, min., phase equilibria, 84M/3121
Sorbyite, microprobe data, 84M/3209
Soret effect, separation of mid-ocean ridge basalt magma, comment on previous paper, 84M/3443; small effect in spreading centre gabbros, 84M/3444
SOUTH AFRICA, Precambrian kerogens, characterization by anal. pyrolysis, 84M/0681; Cu in primary/secondary reference samples, accurate detn. by cation exchange chromatography, AAS, 84M/0712; isomorphous substitutions in allanite, 84M/0771; lindsleyite(Ba) and mathiasite(K), new crichtonite series minerals, 84M/0885; anal. methods used at Mintek, manual, 84M/1242; selective flotation of chromite, 84M/1419; primitive He in diamonds, 84M/2818; Archaean shales, geochem. evolution, 84M/2970; *Aggeneys* and *Gamsberg*, metamorphosed Precambrian Fe-Pb-Zn-Cu sulphides, baryte, S-isotope content, 84M/1677; *Bellsbank, De Bruyn* and *Martin mine*, pyroxenites, eclogites, megacrysts in kimberlite, 84M/4382; *Benfontein*, primary baddeleyite in kimberlite, 84M/3203; *Benfontein sill* and *Premier* and *Wesselton mines*, alleged kimberlite-carbonatite relationship, evidence from ilmenite, spinel, 84M/3371; *Bultfontein*, veined, metasomatic and MARID xenoliths, tr. element and isotopic studies, 84M/1659; *Burgersfort, Oliphants* and *Steelpoort rivers*, bar to bank convection, role in origin of alluvial placers, 84M/2555; *central Bushmanland*, highly deformed region, stratigraphic interpretation, correlation of structurally separated metasediments, 84M/4326; *Bushveld complex*, magma addition, possible decoupling of major- and tr. element behaviour, 84M/0573; reduction behaviour of chromite, mathematical modelling, 84M/1575; parental magma, exptl. data at 3 kbars, 84M/1567; vanadiferous magnetite, geochem., implications for layered complex crystallization mechanisms, 84M/1876; melts of chilled margin rocks, density, viscosity characteristics, 84M/2665; implications for origin from Stillwater complex reef studies, 84M/3395; chilled margin rocks, melting relations, implications for chromitite origin, 84M/3982; Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite, 84M/4249; *Bushveld complex, Merensky unit*, tr. and Pt-group element geochem., development, 84M/1695; *Cape Prov., Saltpetre Kop* and *Sutherland Commage*, olivine melilitites, petr., 84M/4385; *E. Transvaal, Gravelotte*, blue-

SOUTH AFRICA (*contd.*)
green apatite, chem., opt. absorption, 84M/0874; *Fairview mine*, refractory Au ore, sulphide concentrate and calcined mine tailing, min. study, 84M/0283; *Griqualand West*, Mn deposits, genesis, 84M/1467; *Groot Marico*, *Kleinfontein*, andalusite deposit, evaluation, 84M/1509; *Jagersfontein*, alkremite, garnetite, eclogite xenoliths, 84M/0989; new titanates from kimberlite, implications for upper mantle metasomatism, 84M/2821; *Jagersfontein* and *Kampfersdam mines*, graphic rutile-olivine intergrowths in kimberlites, 84M/4381; *Kaapvaal craton*, recent mobilization of U in Archaean pyritic conglomerates, 84M/2783; *Karkloof Plateau*, preparation of beneficiated bauxite, quality evaluation, 84M/0262; *Karoo*, continental lithosphere evolution, evidence from volcanics, xenoliths, 84M/1705; tr. element enrichment patterns, origin, 84M/1706; *Kimberley*, dunites, example of mantle metasomatism, 84M/4380; *Kimberley*, *De Beers mine*, Sr ratios in kimberlitic carbonates, hydrothermal alteration, crustal contamination, relation to carbonatite, 84M/1679; East Peripheral kimberlite, K/Ar age, 84M/2344; *Kuruman area*, ettringite crystals to 3″, new find, 84M/4571; *Kuruman* and *Griquatown Fe formations*, sedimentology, 84M/4456; *Malmani dolomite*, Early Proterozoic dolomitization, silicification, palaeohydrological model, 84M/3479; *Marikana*, *MG-1 seam*, beneficiation of chromite ore, 84M/1418; *Masuli mine*, chrysotile asbestos, rapid XRD detn. of chrysotile/lizardite ratios in, 84M/3169; *Meiringspoort*, *Thabazimbi*, drill cores, bulk sample from andalusite deposits, evaluation, 84M/0295; *Namaqualand*, Cu-bearing basic rocks, petr., 84M/1994; *Orange Free State*, *Monastery pipe*, coherent intergrowth in subcalcic diopside megacryst, 84M/0162; *Palabora*, orbicular rhythmic layering in carbonatite, 84M/4384; *Palabora mine*, ferriphlogopite assoc. with carbonatite, props., 84M/4231; *Pofadder*, zaherite, new occurrence, props., 84M/1905; *Pongola Basin*, U-Ti phases from Precambrian quartz-pebble conglomerates, 84M/3860; *Prieska area*, thrust zones, shear zones on margin of Namaqua, Kheis mobile belts, 84M/3314; *Steynsdorp Goldfield*, origin of Au in greenstone quartz veins, review, 84M/0235; *Transvaal*, *Barberton Mtn.*, komatiites, oldest reliable terrestrial $^{40}Ar/^{39}Ar$ ages, 84M/3653; *Barberton Mtn. Land*, *Fig Tree group*, pseudoolites, in Archaean rocks, new interpretation, 84M/2217; *Transvaal*, *Phalaborwa*, mesolite, apophyllite crystals, new find, 84M/4571; *Witwatersrand Au deposits*, U and Au-bearing Precambrian quartz-pebble conglomerates, genesis, 84M/0261; 'brannerite' from conglomeratic U deposits, comparison with Indian, 84M/0835; pyrites, min. and fluid inclusions, morphology, tr. element content, implications for metamorphism, 84M/0844; derivation of Au in conglomerates, alternative model, 84M/2570; *Witwatersrand* and *Barberton*, Ag, Hg in single Au grains, implications, uses, 84M/1870

SOUTH AMERICA, negative correlation of volcanic activity and surface runoff, 84M/4410; *southern*, magmatic intervals, transgression-regression cycles, oceanic events in Cretaceous, Tertiary rocks, 84M/4347; *south east coast*, Precambrian and Early Palaeozoic terrains, geol. comparisons with southern Africa, 84M/4327; *Andes Mountains*, volcanic rocks, combined Sr-O isotope relationships, petrogenesis, 84M/2956; *central*, mountain building in, 84M/3326; *26°-29°S*, plutonic, volcanic rocks, O-isotope compns., 84M/2955; *Guiana Shield*, geol., review, 84M/3325

SOUTH CHINA SEA, *Beibu Bay*, glauconites, min., 84M/3167

SOUTH GEORGIA, geochem. of greywackes, prelim. study, 84M/0609; *Cooper Bay-Wirik Bay area*, geol. observations, 84M/1144; *Cumberland Bay formation*, geol., petr., 84M/1099; *Drygalski Fjord complex*, geol., 84M/3320; *Scotia Sea*, geomagnetic variations, influence of tectonic boundaries on, 84M/1163

SOUTH ORKNEY ISLANDS, *Fredriksen Island*, mélange with subduction-accretion complex rocks, 84M/4334

SOUTH SANDWICH ISLANDS, volcanic rock Pb-isotope compns., bearing on magma genesis in intra-oceanic island arcs, 84M/0581

SOUTH SHETLAND ISLANDS, apparent lateral migration of Jurassic to Quaternary island arc volcanism, K/Ar geochron., 84M/2354; *Clarence Island*, *Cape Bowles*, Scotia metamorphic complex, geol., 84M/3555; *Deception Island*, volcanic hazard at natural harbour assessment, 84M/1038; *King George Island*, block faulting, late Cainozoic phases, 84M/0945; 'Jurassic volcanics' and 'Andean' intrusions, K/Ar ages, 84M/2355; Late Cretaceous-Late Oligocene calc-alkaline suite, K/Ar ages, 84M/2356

Souzalite, new ferrous analogue, 84M/0884

Sövite, *Sweden*, *Alnön complex*, ring dykes, palaeomagnetic props., 84M/2287

SPAIN, Cainozoic melilitites, isotope and tr. element evidence for alkali basalt to kimberlite transition, 84M/0556; salt efflorescences in a Typic Salorthid, min. compn., 84M/0866; botryoidal goethite, high-resolution TEM study, 84M/4257; *south east*, ultrapotassic rocks, geochem., 84M/2878; Neogene volcanic region, 84M/3418; garnets in dacite, rhyodacite, origin, 84M/3126; *Almeria*, *Cabo de Gata*, bentonites, genesis, 84M/0098; *Serrata de Nijar*, bentonite, min., geochem., 84M/2474; *Badajoz*, *Santa Marta*, minium, thermal behaviour, 84M/3201; *Biscay* and *Guipuzcoa provs.*, Cretaceous volcanic and sedimentary rocks, fossil dating, 84M/3645; *Campos de Calatrava*, basaltic rocks, $^{87}Sr/^{86}Sr$ ratios, 84M/2877; *Caravaca*, Cretaceous-Tertiary boundary sediments, isotopic study, evidence for asteroidal impact, 84M/3115; *Caravaca*, spheroids at Cretaceous-Tertiary boundary, result of extraterrestrial impact, 84M/1819; *Ciudad Real*, *Alcázar de San Juan*, saline sedimentation, hydrochem., min., 84M/2614; *Cordillera Betica*, *Nevado-Filábride complex*, coexisting muscovite, paragonite in metapelites 84M/3152; *Sierra Alhamilla*, *Aguilón fol nappe*, structure, tectonic evolution, 84M 3310; *Granada Basin*, celestine, newl discovered deposit, geol., min., 84M/3919 *Granada* and *Guadix-Baza basins*, chlorite from post-orogenic basins, XRD study 84M/3164; *Fortune basin*, shallow marine continental conglomerates from coral ree complexes, 84M/1075; *Galicia*, secondar lineation in high-*T* quartzite, explanatio for abnormal fabric, 84M/4318; *Granada Marquesado Fe deposits*, genesis, evolution 84M/3876; *Granada*, *Molvizar deposit*, ten nantite, opt., chem., ore deposit data, 84M 3213; *Sierra Nevada*, chem. weathering i small river basin, quantification, 84M 2968; gersdorffite, annabergite, glaucodot new occurrence, ore min., 84M/3212; *Gua dalajara*, *Atienza area*, volcanism, petr study, 84M/3419; volcanic rocks, geo chem. characterization, 84M/2876; *Ma zarete*, diagenetic characteristics of U bearing/barren arkosic sandstones, pos sible differences, 84M/2586; *Hortsavinya* anomalous birefringence of grandite gar nets, effect of sector zoning on, 84M/0766 *Huelva*, *La Garranchosa*, calc-silicate no dules in marbles, compn., texture, 84M 3499; *Jaén*, *Valdohornillo*, hydrotherma veins in dolerite, 84M/3500; *La Mancha* recent gypsum crystals, modes of forma tion, diagnostic features, 84M/0863; *L Mancha*, *Laguna de Tirez*, Mg-, Na-salts recent playa lake, growth features, 84M 1074; *Menorca*, terrigenous dolomite Miocene, provenance, diagenesis, 84M 1076; *Murcia*, *Caravaca*, prehnite fro hydrothermal alteration of ophiolite 84M/3172; *Murcia*, *Tallance*, basalt hornblendes in basaltic rocks, chem. stud 84M/3147; relationship between *d*-spa ings and chem. compn., 84M/3148; *Na varra*, *Asturreta*, magnesite deposit, min geochem., genesis, 84M/2613; *Ordene complex*, ophiolitic mafic rocks, geochem 84M/2147; *Ronda complex*, Nd, Sr-isotop study of mafic layer, 84M/2875; *Santiag de Compostela*, *Arinteiro-Bama Cu deposi* genesis, metamorphism, 84M/3901; *Si tema Central area*, biotite, muscovite i granitic rocks, relationship between chem compn. and magmatic differentiation pro cesses, 84M/3154; *Sierra Alhamilla*, plagi clase porphyroblast growth, relation deformation, 84M/2262; *Salamanca Prov* U deposits, excursion details, 84M/145 *Tallante*, spinel + quartz associations high grade xenoliths, geothermometr barometry potential, 84M/1108; *Toled Tajo* [*Tagus*] *basin*, Miocene opals, ageir features, 84M/1072; primary and diagen tic textures in Miocene opal, 84M/347 *Tagus basin*, siliceous rocks, new textur for α-quartz, α-cristobalite, α-tridymit genetic interpretation, 84M/3474; sali sedimentation, cyclical character, 84M 3475; groundwater, detn. of absolute ag 84M/3644; *Vall de Ribes*, robinsonit additional data, 84M/0860

'Sparagmites', *southern Norway*, geochem. assoc. basalts, 84M/0553

Spectrometry, ICP, for detn. of Be, Zr geochem. reference samples, 84M/0714

Spectrometry (*contd.*)
—, spark source mass, geochem. application to crustal abundance of Sn, 84M/0513
—, specimen isolated ion mass, for anal. of *RE* elements in accessory minerals, 84M/2439
Spectroscopy, alpha-, for detn. of ^{230}Th content in CCRMP reference samples, 84M/0722; *v.* also atomic absorption, auger electron
Sphalerite, structure, dynamic deformation effects, Debye-Waller factors, 84M/0189; high-Mn, extraction of Zn by direct oxidative leaching, prelim. study, 84M/0227; crystal defects, TEM study, 84M/1390; Se distrib. between galena, sphalerite, 84M/2701; stoichiometry and evolution of terrestrial, oceanic, 84M/2828; stretching of fluid inclusions at 1 atm., 84M/3958; Cd-bearing, phase-dimension effect, mechanism of polytype formation, 84M/3967; *central Sweden*, in Fe, sulphide ores, chem. compn., 84M/0832; *Scotland, Aberfeldy, Foss Ba-Zn-Pb deposit*, compn., relation to deposition, metamorphism, 84M/0850; *Germany, Müllenbach*, in U deposit, paragenesis, 84M/1485; *Austria, Kreuzeckgruppe*, S-isotope values, 84M/2827; *Czechoslovakia, Javorie Mtns*, occurrence, 84M/0254; *Kutná Hora, Turkaňk zone*, In content, 84M/1896; *Bulgaria, Kenan Dere deposit*, negative crystals in, morph., genesis, 84M/0852; *Greece, Macedonia, Koronuda*, Cd-rich in ore deposit, 84M/2595; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075; *Zaïre, Kipushi*, intense green, props., 84M/2771; *USA, New Jersey, Franklin*, in Buckwheat dolomite, 84M/2320; *Peru, Hualgayoc*, compn. zonation around rhyodacite body, 84M/1895; *Pacific Ocean, East Pacific Rise*, chem. behaviour in hydrothermal, metamorphic environments, 84M/0851
Sphene, solid solubilities of Cs, Sr, Y, La, U, Th, Na in, radionuclide implications, 84M/0325; use as fission track geochronometer/geothermometer, 84M/1201; class of pigments for vitreous enamel industry, 84M/2608; light *RE* element zoning in during granitoid fractionation, 84M/4074; *Poland, Michalowice*, druses, formation conditions, 84M/4479; *south Bulgaria*, from granitoids, geochem. of *RE* elements, 84M/1664
Spilites, *Iberian Peninsula*, in pyrite belt, origin, isotopic evidence, 84M/2994; *Yugoslavia, Slavonia*, petr., geochem, magmatic association, 84M/0972; *Colombia, Los Manantiales 1 well*, below Cretaceous strata, implications for spread of Caribbean Sea, 84M/1019
Spilitization, *Greece*, of ophiolites, metasomatic transformation of plagioclases during, 84M/2099
Spinel, electrostatic energies of M_2SiO_4 polymorphs, 84M/0157; showing daylight to incandescent light colour change, description, 84M/0498; $MgAl_2O_4$, shock effects in, 84M/1578; $MgAl_2O_4$, O self-diffusion in crushed, effect of surface area/volume ratio upon, 84M/1582; $NiCr_2O_4$, precipitation, growth in system $NiO-Cr_2O_3$, 84M/1585; formation from forsterite in Mg_2SiO_4 via faulted structures, 84M/1606; class of pigments for vitreous enamel industry, 84M/2608; formation of (γ) from olivine (α), new intermediate phase, 84M/2654; occurrence in Cu converter slags, microprobe anal., 84M/2670; phase in kaolin-mullite reaction series, structural characterization, 84M/2742; interactions of cations in octahedral, tetrahedral sites, comment, 84M/3824; reply, 84M/3825; $MgAl_2O_4$, anharmonic thermal vibrations of atoms in up to 1933°K, 84M/3826; Raman microprobe of synthetic in series $Mg(Cr_xAl_{2-x})O_4$, correlation between high frequency band and Cr/(Cr+Al) ratio, 84M/3827; *Greenland, Fiskenæsset region*, with magnesian högbomite, microprobe anals., 84M/0824; *Iceland*, in transitional, alkali basaltic glasses, 84M/1877; *Czechoslovakia, Žiar Mtns.*, in recent flow system, new occurrence, 84M/0253; *Germany, Bavarian Forest*, in granite, petr., 84M/4319; *South Africa, Benfontein sill* and *Premier* and *Wesselton mines*, anals., evidence for alleged kimberlite-carbonatite relationship, 84M/3371; *Canada, Newfoundland, White Hills peridotite*, phases in, 84M/2129
—, chrome, in equilibrium with silicate melt, influence of Fe^{3+} on Al distrib., 84M/2686; with basic silicate melt, partitioning of ferric Fe between, 84M/3973; from layered complexes, Pd, Pt, Ir, Au content, 84M/4249; *USSR, Nizhnemamonsk massif*, zonation in, 84M/0830; *Italy, Alps, Ivrea-Verbano layered complex*, occurrence, 84M/3195; *India, Andhra Pradesh, Belkuba dist.*, Fe^{2+}/Fe^{3+} distrib. mechanism in, 84M/0831; *China*, from chromite deposits, chem. compn. studies, 84M/3197; *Japan, Honshu, Misasa dist.*, in alkali basalt, calc-alkali andesites, crystallization trend, 84M/0829; *Pacific Ocean, Costa Rica rift*, in basalts, 84M/2196
—, chromite-magnetite, stability, 84M/0407; *v.* also chromite, magnetite
—, hercynite-pleonaste, *Poland, Krzemianka*, in ilmenite-magnetite rocks, opt., chem., 84M/4253
—, pleonaste, *Italy, Mt Vesuvius*, new find, 84M/4566
Spinelloids, stability, polytypism and factors determining structures, 84M/2494; phase intergrowth in, 84M/2654; stability in system $NiAl_2O_4$-Ni_2SiO_4, 84M/3974
Spinifex flows, *Canada, Ontario, Alexo*, olivine, clinopyroxene, comparative study, 84M/2041
Spionkopite, *Germany, Clara mine*, occurrence, paragenesis, 84M/4562
SPITSBERGEN, *north east* Precambrian dolomite crystals, effects of glacial transport, neomorphism on sizes, 84M/3470; *Janusfjellet formation*, U, Th, K distrib. in black shales, 84M/2964; *Oscar II Land*, Caledonian metamorphism, 84M/2253; jadeite from, 84M/3142
Spodumene, hydroxyl-bearing from rare-metal pegmatites, study, 84M/0786; α-, room *T* microplasticity, 84M/4525; *Austria, Tyrol, Tristennöckel*, in pegmatite, anals., 84M/3143
Springs, *Switzerland, Laufental*, karstic, isotopic measurements, 84M/0652; *Italy, Campania, Piana di Paestum*, mineralized, geochem., 84M/1783
—, hot, *Switzerland*, geol., hydrogeol., isotope, geothermal data, 84M/0651; *Turkey*, relation of lineaments from Landsat imagery to, 84M/0237; *Chile, Puchuldiza* and *Tuja*, geochem., 84M/3018
—, thermal, N isotope biogeochem., 84M/4172; *v.* also geothermal waters
SRI LANKA, cat's-eye scapolite, study, 84M/0496; pink granites, origin, new view, 84M/0994; cat's eye scapolite, opt., cause, 84M/1645; recent finds of taaffeite, 84M/2770; cat's-eye alexandrite, description, 84M/4057; *Kahatagaha-Kolongaha area*, graphite mineralization, geol., 84M/0265; *Meetiyagoda*, pyrite, marcasite occurrence, 84M/0502; *Muthurajawela peat deposit* and *Manner Island*, geochem. of Au, Pt in peat and algal mats, 84M/2973; *Rakwana*, srilankite, new mineral, data, 84M/3250
Srilankite, *Sri Lanka, Rakwana*, new mineral, data, 84M/3250
Stalactites, C-isotope compn. in recent, 84M/1749
Stalagmites, C-isotope compn. in recent, 84M/1749; calcite, overestimate of ESR dates due to lab. heating. 84M/2366
Standards, USGS rocks, elemental concentrations in 11, 1982 list, 84M/0709; USGS marine mud (MAG-1), detn. of Br, I, in, 84M/0717; rocks, Cr content, radiochem. NAA study, 84M/0724; detn. of ultra-trace amounts of Th in NIM-D, NIM-P samples, 84M/0725; ore samples prepared by Chinese Bureau of U Geology, U, Th, Ra content, anal. procedures, 84M/0727; calcite, dolomite, siderite for EM, electron microprobe anals., 84M/0728; microelement contents based on spectrochem. detns. over long time intervals, reliability of data, 84M/0729; new Si powder, synthetic fluorphlogopite for XRD, 84M/2374; homogeneity of electron microprobe standards, new test, 84M/3067; *USSR*, mineralogical, necessity for establishment of service, 84M/1185; *Venezuela*, laterite VL-1, anal., 84M/0711; *v.* also reference samples
Stanfieldite, occurrence in Zaisho pallasite, 84M/3108
Stannite, high-*T* phase, prepn., characteristics, 84M/3988; *England, Cornwall, Cligga Head*, occurrence, 84M/4260; *St. Austell area*, disseminated in granite, 84M/3211; *St. Michael's Mount*, equality with kesterite and stannoidite, 84M/4260; *Japan, Hokkaido, Toyoha mine*, new occurrence, ore mineral study, 84M/3904; *Bolivia*, crystals, new find, 84M/4571; *Oruro, San Jose mine*, large crystal aggregates, 84M/4570
Stannoidite, *England, Cornwall, St. Austell area*, disseminated in granite, 84M/3211; *St. Michael's Mount*, equality with 'yellow stannite', 84M/4260
Staurolite, equilibria, impossibility of mutually consistent data reconciliation, 84M/0450; structure, history, 84M/2511; *USSR, Kola Peninsula*, Zn-bearing from micaceous pegmatites, opt., morph., XRD, anal., 84M/1831; *France, Massif Central, east Rouergue*, producing reactions in high-*P* aureole, geothermobarometry, 84M/4475; *Austria, Sölden*, in garnet amphibolite, textural, compn. relations, 84M/4215; *Czechoslovakia, Žiar Mtns.*, in recent flow

Staurolite (*contd.*)
system, new occurrence, 84M/0253; *USA*, hydroxyl content, 84M/1832
Steatite, *Australia*, *Queensland*, *Brisbane* and *Caboolture areas*, veins, resources, 84M/2578
Steenstrupine, *Greenland*, *Tunugdliarfik*, crystal structure, 84M/2514
Sterlingite, *USA*, *New Jersey*, description, 84M/4606
Stevensite, exptl. formation from pectolite, 84M/1619; *Italy*, *Phlegraean Fields*, *Procida Island*, pseudomorphs after periclase, 84M/2483
Stibiconite, *England*, *Devon*, *Meldon*, occurrence in aplite, 84M/4254
Stibioluzonite *v.* famatinite
Stibiotantalite, *USSR*, *Kola Peninsula*, syngenetically formed with alumotantite, 84M/0841
Stibnite, use in Indian medicine, 84M/1527; microprobe data, 84M/3209; solubility in H_2O from 140°-500°C, 84M/3993; *Austria*, *Kreuzeckgruppe*, S-isotope values, 84M/2827; *Schlaining*, S-isotope values, 84M/2826; *Italy*, *Tuscany*, *Pereta mine*, crystals to 80 cm, 84M/4567; *Czechoslovakia*, *Javorie Mtns.*, occurrence, 84M/0254; *Jelšový potok 1 deposit*, in bentonites, proof of origin, 84M/0121; *China*, crystals, new find, 84M/4571; *Bolivia*, *Oruro*, *La Salvadora mine*, large crystals, occurrence, 84M/2316
Stilbite *v.* zeolites
Stishovite, *USSR*, *Ternovka astrobleme*, occurrence, 84M/4208
Stocks, *Egypt*, *Eastern Desert*, *El-Yatima*, granitic, petr., chem., genesis, 84M/2886
Stokesite, *Japan*, *Gifu Pref.*, *Kerokubo*, first Japanese occurrence, data, 84M/4586
Stolzite, *Austria*, *Rauris Valley*, in Au tailings, 84M/3601; *Australia*, *NSW*, *Broken Hill*, new occurrence, 84M/2314; *Japan*, *Kyoto Pref.*, *Otani mine*, *Hankei adit*, occurrence, X-ray data, 84M/4593
Stone, new machining method, 84M/1238
Straczekite, *USA Arkansas*, *Wilson* (*Potash Sulfur*) *Springs*, new mineral, data, 84M/3251
Strain *v.* rock deformation
Streams, suspended sediment transport with very fine sediments, comments on calculation, 84M/1062; Pb-, Cd-transportation and purification, mechanism, 84M/3014; *tropical Pacific Islands*, waters, chem. compns., 84M/3031; *v.* also rivers, water
Stream sediments *v.* sediments, stream
Strengite, *Germany*, *Clara mine*, new find, 84M/4559
Stress, *Australia*, *New South Wales*, configurations in conjugate quartz-vein arrays, 84M/4462
Stromatolites *v.* fossils
Strontianite, crystal growth in gels, lab. study, 84M/0385; crystal chem., 84M/1911; direct extraction of SO_2 for isotopic anal., 84M/2445; *Poland*, *Tajno intrusion*, in carbonatite, 84M/0972; *Germany*, *Westphalia*, occurrence, 84M/1177; *Austria*, *Oberdorf a.d. Laming*, large crystals, 84M/4563; *Japan*, *Tokyo Pref.*, *Shiromaru mine*, first Japanese, X-ray data, 84M/4603; *USA*, *Virginia*, *Wise County*, occurrences resources, 84M/1513; *v.* also calciostrontianite
Strontio-chevkinite, new mineral, data, 84M/3252
Strontium, distrib. in mins. of ultramafic alkalic rocks, 84M/0551; hydrothermal reactions with clay minerals, zeolites, shales and simulated transuranic elements, nuclear waste implications, 84M/1542; fractionation during melilite crystallization in system nepheline-diopside-apatite, 84M/1612; in pelecypod shells, AAS anal., 84M/1745; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; detn. in fossil gastropods, bivalves, 84M/2838; isotopic anal. with automatic thermal ionization mass spectrometer, 84M/3687; *Norway*, *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Iraq*, distrib. in rocks, 84M/0605; *Madeira*, detn. in volcanic rocks, 84M/2880; *Japan*, *Kitakami Mtns.*, in Cretaceous plutons, 84M/0997; *Egypt*, *Lake Qarun*, high concentration in gypsiferous fraction from brine, 84M/1744; *Canada*, *northern Labrador*, diffusion during Uivak gneiss polymetamorphism, 84M/0640; *Barbados*, in Holocene/Pleistocene corals, 84M/0614
—, compounds, synthetic $Sr_2MgSi_2O_7$, crystal structure, 84M/1363; synthetic $Sr(NO_3)_2$, struct., 84M/0205; SrO, thermal expansion data, 84M/4536; synthetic $SrSeO_4$, structure, 84M/3838; Sr_2SiO_4, order-disorder in structure of α' form, 84M/1360; X-ray, opt., ferroelasticity of β form, 84M/1361
—, ions, Sr^{2+} incorporation into calcite overgrowths, influences of growth rate, soln. compn., 84M/0380
—, isotopes, adsorption by noncalcareous soils, exchangeable ions, soln. compn. effects, 84M/0313; $^{87}Sr/^{86}Sr$, use as tracer for mantle isotope geochem., 84M/0508; geochem. in carbonates, evaluation, application of ion microprobe, 84M/2836; *Britain*, evidence for role of continental crust in origin, evolution of Caledonian granites, 84M/1716; *Iceland*, relationship to other isotopes in volcanic glasses, 84M/2867; *Spain*, *Campos de Calatrava*, ratios in basaltic rocks, 84M/2877; *Israel*, *coastal plain*, evidence for history of oilfield brines, 84M/0656; *Egypt*, *southern Sinai*, compn. in groundwater, use in tracing origin of salts, 84M/1777; *South Africa*, *De Beers mine*, ratios in kimberlitic carbonates, ion-microprobe study, 84M/1679; *Canada*, *North West Territories*, *Pine Point*, $^{87}Sr/^{86}Sr$ measurements on sulphides, carbonates, fluid inclusions, increase accompanying mineralization, 84M/2837; *USA*, *Hawaii*, *Oahu*, evidence for basalt multiple sources, 84M/2914; *Andes*, compn. in volcanic rocks, 84M/2956; *Pacific Ocean*, *Costa Rica rift*, compn. in basalts, 84M/2190; *north east Pacific Ocean* and *Gulf of California*, geochem. of igneous rocks, 84M/2917; *DSDP*, in marine sediment interstitial waters, 84M/3028
—, minerals, *USA*, *Virginia*, *Wise County*, resources, update, 84M/1513
Struvite, crystallization, effect of pH, concentration, 84M/0201; transformation to newberyite in aqueous systems, 84M/0442
Stylolites, generation during late diagenesis, kinetic theory, 84M/1059; bed-parallel, interaction with extension veins in boudinage, 84M/4305
SUDAN, *Gezira*, soils, min. of major, 84M/3777; *Jabal Dumbeir complex*, nepheline syenite–carbonatite complex, geochem., age, 84M/0986; *Sol Hamed*, Late Proterozoic ophiolite, 84M/1046
Sudeten Mountains v. Poland, *Czechoslovakia*
Sugilite, gemmological props., ident., discovery, 84M/1647
Sulphate, oceanic, $\delta^{34}S$, $\delta^{18}O$ age curves, possible derivation from isotopic compn. of *Canadian* baryte, 84M/2832; *USA*, *Delaware Bay*, reduction in salt marshes, 84M/2982
—, ions, spectrophotometric detn. by flow-injection anal., 84M/2419
Sulphates, of trivalent elements, crystal chem., 84M/0199; discrimination using portable radio-determining radiometer, 84M/0245; balance with hydrocarbons during S-deposit formation, 84M/0429; crystal chem., mixed radicals in anhydrous intermediate sulphates of trivalent elements, 84M/1397; direct extraction of SO_2 for isotopic anal., 84M/2445; *USSR*, *Noril'sk*, assoc. with sulphides, *T* conditions for formation, 84M/0271; *Germany*, *Hagendorf*, secondary, 84M/0877; *Switzerland*, *Alps*, secondary, occurrences, 84M/1178; *Italy*, *Tuscany*, *Niccioleta*, from massive pyrite deposits, O-isotope compns., 84M/2833; *South Australia*, *offshore Port Pirie*, in shallow carbonate sediments near smelter, bacterial reduction, 84M/0319
Sulphide deposits, Ni-Cu, application of Ni partitioning between olivine/sulphide to, 84M/1608; Besshi-type volcanogenic, review, 84M/3856; *Norway*, *Trondheim dist.*, Cyprus-type, 84M/2140; *England*, *Cornwall*, *Fal Estuary*, early diagenetic in sediments, 84M/2967; *Scotland*, *Aberfeldy*, S-isotope study, 84M/4077; *Midland Valley*, stromatolite-hosted, 84M/1412; *Ireland*, *Leinster granite*, marginal mineralization, stable isotope studies, relationship to aureole coticules/tourmalinites, 84M/1683; *USSR*, *Noril'sk* Cu-Ni, comparison with Western Australian, 84M/2572, 84M/3868; *Urals*, *Uzel'ga orefield*, cyclicity of volcanic host rocks, 84M/3381; *Iberian Peninsula*, geochem. proximity indicators in pyrite belt, East Pontic metallotect, 84M/1810; *Cyprus*, *Troodos massif*, search for, applicability of induced polarization geophys. method, 84M/2077; *Sultanate of Oman*, location in ophiolites, 84M/2142; *China*, *Sichuan Prov.*, Pt-group elements in, 84M/3858; *Japan* and *Canada*, volcanogenic massive, compn. and oxidation state of chlorite from assoc. tuffaceous exhalites, 84M/3163; *south east Australia*, Palaeozoic stratiform, phyllosilicates and assoc. minerals in, 84M/4236; *Queensland*, *Gilberton area*, 84M/2579; *Western Australia* Cu-Ni, comparison with Russian, 84M/2572, 84M/3868; *Egypt*, *Derhib*, polymetallic, min., Pb isotope studies, implications for Red Sea metallogenesis, 84M/4085; *Canada*, *British Columbia*, *Sullivan orebody*, structural evolution, 84M/2603; *Tulsequah area*, volcanogenic massive, geol., 84M

Sulphide deposits (*contd.*)
4336; *North West Territories, Vulcan prospect*, stratiform, exhalation of basinal brines along faulted continental margin, 84M/3927; *Ontario, South Bay*, geol., footwall alteration, 84M/4092; *USA, Nevada, Big Mike deposit*, textural, stable isotope studies, 84M/3916; *Pacific Ocean, Juan de Fuca ridge*, active hydrothermal vents and sulphide deposits, 84M/0293
—, ores, C-containing Au ores, pressence of mantle, crustal elements, implications, 84M/4082; *Sweden*, Pb isotope compn. in Caledonian veins, 84M/4083; *central*, chem. of magnetite, sphalerite in, 84M/0832; *Wales, Aberystwyth* and *Halkyn Mtn. areas*, soil contamination by, effect on soil Se content, 84M/1515; *Japan, Shikoku, Sazare mining dist*, regional metamorphism, 84M/1140
Sulphides, precipitation, organic kinetics, 84M/0386; metal triads, geochem. and crystallographic trends, 84M/0854; in sediments, diagenetic behaviour and crystallization sequences, 84M/1056; acid-reactive in freshwater sediments, waste sludges, waterlogged soils, detn., 84M/1243; electronic structures, theory, exptl., 84M/1391; $Pb_2Sb_2S_5$, $Sn_2Sb_2S_5$, structures, comparisons, 84M/1394; Cu_3BiS_3, phase transformations, thermal expansion between 25-300°C, 84M/2700; stoichiometry and evolution, study of terrestrial/oceanic pyrites, chalcopyrites, sphalerites, 84M/2828; synthetic Bi_2O_2S, structure, 84M/3839; Cu-Sulphides, Cu*L* X-ray emission spectra, wavelength shift, 84M/3843; segregation of magmatic, quantitative modelling, exploration guide, 84M/3856; *England, Cornwall, St. Michael's Mount* and *Cligga Head*, Sn-bearing, occurrence, props., 84M/4260; *Ireland, USA, Peru*, Pb-Zn-Ag in carbonates, supergene processes, 84M/2558; *USSR, Noril'sk, T* conditions for formation of assoc. sulphates, 84M/0271; *Urals, Siberia* and *Yakutian pipes*, inclusions in diamonds, 84M/3189; *France, Massif Central* and *Languedoc*, inclusions/grains in spinel lherzolite xenoliths, 84M/3208; *Iberian Peninsula*, massive, new paths to exploration in pyrite belt, 84M/2566; *Belgium, Loenhout*, mineralization in borehole, 84M/1455; *Germany, north Bavaria*, with U oxides in U exploration sites, 84M/1460; *Switzerland Alps*, secondary, occurrences, 84M/1178; *Italy, Vincentino area, Trentini* and *La Veneziana mines*, of Zn, Cu, Pb, Fe, Ag, occurrences, 84M/3603; *Bulgaria, Propada deposit*, new Cu-Fe-Bi-sulphide, 84M/0898; *Japan, Besshi* and *Hitachi Cu deposits*, in metamorphosed ores, studies, 84M/3906; 84M/3907; *Kii Peninsula, Ohmine granitic rocks*, paragenesis, 84M/1891; *South Africa, Aggeneys* and *Gamsberg*, metamorphosed Precambrian Fe-Pb-Zn-Cu, S-isotope content, 84M/1677; *Canada, North West Territories, Pine Point*, $^{87}Sr/^{86}Sr$ measurements, increase accompanying mineralization, 84M/2837; *Quebec, Mattagami Lake mine*, coprecipitation with talc in sea-floor brine pool, geochem., O-isotope, min. chem. evidence, 84M/1696; *USA, central Appalachian Mtns.*, metamorphic features in, 84M/0849; *Minnesota, Deer Lake complex*, in layered sills, mineralogy, 84M/1698; *Virginia, Mineral*, search for, application of remote sensing, field results, 84M/0669; *Pacific Ocean, Costa Rica rift*, hydrothermal, S-isotope compn., 84M/2187; *Galapagos Rift*, hydrothermal, geothermometry, 84M/2829
Sulphosalts, with Pb > Σ other metals and Sb > (As + Bi), min., metallogeny, 84M/3209
Sulphur, in petroleum coke, thermal desulphurization, 84M/0394; thermal stability, 84M/0430; pyritic, burial in sediments over Phanerozoic time, new theory, 84M/0693; content, isotope compn. of Apollo 17 drive tube 74002/1 orange/black glasses, 84M/0730; index features of native, 84M/0820; future in USA and World economy, (book), 84M/1256; use in Indian medicine, 84M/1527; content in geochem. exploration soil samples, estimation, rapid method, 84M/1812; chromatographic detn. in geol. samples, 84M/2425; influence on tr. element fractionation in iron meteorites, exptl., 84M/3112; gaseous S_2, fugacity in pyrrhotite-bearing silicic magmas, 84M/3983; *England, Derbyshire, Ball Eye quarry*, native, occurrence, 84M/2292; *South Australia, Arkaroola*, crystals in unusual jarosite pseudomorphs after pyrite, kinetics, 84M/1903; *USA, Florida, Everglades*, diagenesis in peat, 84M/2983; *Hawaii, Kilauea*, concentrations, sources, losses in basalt, 84M/0580; *Virginia, Chesapeake Bay*, organic in sediments, 84M/0610; *Pacific Ocean, Costa Rica rift*, content in basalts, 84M/2188; *Galapagos rift*, content in basalts, 84M/2173; origin, 84M/2829
—, compounds, SO_2, adsorption by clinoptilolite, 84M/2284; direct extraction from sulphates for isotopic anal., 84M/2445; sample prepn. via Ag_2S for S-isotope anal., method, 84M/3686; SO_2 and H_2S, fugacities in pyrrhotite-bearing silicic magmas, 84M/3983; *north east Japan*, origin in acid sulphate-chloride thermal waters, 84M/3015; *Matsukawa geothermal area*, abundance, S-isotope compn., 84M/2830; *Guatemala, Fuego volcano*, SO_2, emission during 1974 eruption, 84M/1043
—, deposits, balance of hydrocarbons, sulphates during formation, 84M/0429
—, ions, metastable oxyanions, formation during pyrite oxidation at pH 6-9 and 30°C, 84M/3991
—, isotopes, evidence for Proterozoic Fe-formation genesis, 84M/0542; effects on high-*T* oxidation of troilite, 84M/2697; fractionation between coexisting sphalerite, galena from Pb-Zn-reduced S hydrothermal fluid, 84M/2825; partitioning in Precambrian oceans, evidence from Proterozoic anhydrite, 84M/2834; in cinnabar, detn., method, 84M/3685; prepn. of SO_2 for anal. via Ag_2S, method, 84M/3686; *Scotland, Aberfeldy*, study of Dalradian baryte-sulphide mineralization, 84M/4077; *Ochil Hills*, ratios in baryte, origin of Ag-Cu-Co-$BaSO_4$ mineralization, 84M/2831; *Tyndrum*, investigation of vein Pb-Zn mineralization, 84M/1670; *Norway, Gjøvik, Osen* and *Galåa*, compn. in Pb-deposits, 84M/1668; *USSR, Gornyy Altai*, distrib. in atmospheric/surface water and plants, 84M/4069; *Belgium, Chaudfontaine*, in baryte, implications for deposit origin, 84M/1671; *Italy, southern Tuscany*, in pyrite deposits, study, 84M/1673; *Austria, Carnthia, Bleiberg*, distrib. in Pb-Zn deposit, 84M/1675; *Kreuzeckgruppe*, values of stibnite, pyrrhotite, pyrite, sphalerite, 84M/2827; *Schlaining*, values in stibnites, 84M/2826; *China*, study of stratabound polymetallic deposits, 84M/4087; *Japan, Matsukawa geothermal area*, compn. in S-compounds, 84M/2830; *Papua New Guinea, Panguna* and *Frieda Cu deposits*, data, nature of hydrothermal systems, 84M/0543; *South Africa, Aggeneys* and *Gamsberg*, in metamorphosed Precambrian Fe-Pb-Zn-Cu sulphides, baryte, 84M/1677; *Canadian Shield*, studies on Late Archaean Fe-formations, 84M/3005; *Canada, Ontario, Antikokan area*, geochem of fracture filling gypsum, nuclear waste implications, 84M/0322; *Elliot Lake*, abundancies in clastic rocks, implications for coeval atmosphere, 84M/2775; *USA, Minnesota, Deer Lake complex*, in layered sills, geochem., 84M/1698; *Pacific Ocean, East Pacific Rise, 21°N*, systematics, 84M/2847; *Costa Rica rift*, in basalts, 84M/2188; compn. in hydrothermal sulphides, 84M/2187; *Galapagos rift*, content in basalts, 84M/2173
SULTANATE OF OMAN, suolunite, new occurrence, data, paragenesis, 84M/1842; Upper Cretaceous ridge-transform intersection in ophiolite, 84M/2110; passive margin evolution and nappe emplacement, 84M/2111; chromite deposits in ophiolite, origin, textural and geochem. evidence, 84M/2138; volcanic stratigraphy, location of massive sulphide deposits in ophiolites, 84M/2142; H generation from mantle source rocks, 84M/2799; Ca-, $Mg(OH)_2$ precipitation from groundwaters, significance to serpentinization, 84M/3205; obduction-related planar and linear fabrics, 84M/4430; alkali wehrlite sills, petr., 84M/2026; *Oman ophiolite*, reflectances of ophiolite rocks in Landsat MSS bands, 84M/4429; *Semail ophiolite*, magma chamber, evidence from gabbro variation, internal structure, layering, 84M/2108; evidence from cryptic variation, min. chem., 84M/2109
Sulvanite, *Italy, Tuscany, Alpi Apuane area*, new find, 84M/4566
Sumatra v. Indonesia
Suolunite, *Oman*, new occurrence, data, paragenesis, 84M/1842
Surinamite, crystal structure, relation to sapphirine, 84M/1367
Sursassite, *Italy, Monte Alpe*, crystal structure, stacking disorder, intergrowth with pumpellyite, 84M/3795
Susannite, IR absorption spectrum, 84M/2546; *Scotland, Leadhills-Wanlockhead*, discovery, mining hist., 84M/1172
Suzukiite, *Japan, Gumma Pref., Mogurazawa mine*, new mineral, 84M/4288
Svalbard v. Spitsbergen
SWAZILAND, *Kaapvaal craton*, bimodal suite in ancient gneiss complex, Sm/Nd age, isotopic systematics, 84M/2343

SWEDEN, stratabound sulphide deposits in nappe complexes, Pb-isotope systematics, 84M/1669; Mn-bearing phlogopites, Fe^{3+}-Mn^{2+} pair absorption as cause of reverse pleochroism, 84M/1849; mineral deposits, annotated bibliog., (book) 84M/3692; Caledonian sulphide-bearing veins, Pb isotope compn., 84M/4083; *central*, magnetite, sphalerite in Fe, sulphide ores, chem. compn., 84M/0832; *north*, geol., tectonic evolution of Precambrian, possible basement reactivation, 84M/4308; *north east*, interstitial water compns. in postglacial black clays, origin, 84M/3008; *south*, high-alumina glaucony from Middle Cambrian, 84M/2205; *southwest*, Kinnekulle bentonite, Rb/Sr, U/Pb dating, 84M/1221; strongly recrystallized granitic rock complex, O-isotope systematics, 84M/2868; *Alnö Island*, hydroandradite, occurrence, XRD, TGA data, 84M/1828; *Alnön complex*, palaeomagnetic props., 84M/2287; *Arjeplog-Arvidsjaur-Sorsele U province*, mineralization, studies of selected U occurrences, 84M/1415; *Artfjället*, deformed conglomerate, factors influencing rock competence, 84M/2256; *Arvika*, layered migmatites, origin, 84M/2247; *west Bergslagen*, Proterozoic sea-water-felsic volcanics interaction, erratum, 84M/2992; *Bergslagen*, *Gruvåsen*, ardaite, second occurrence, data, 84M/0861; *Hällerfors region*, Ag mineralization, paragenesis, 84M/1436; *Hjulsjö area*, skarns, metabasites, leptites, K/Ar, Rb/Sr ages, 84M/0009; felsic volcanic rocks, interaction with Proterozoic seawater, high *RE* element mobility, evidence, implications, 84M/0618; *Bergslagen* and *Norrbotten dists.*, Precambrian Fe ores, ferride geochem., 84M/1680; *Billingen-Falbygden* and *Närke areas*, kerogen, U resources in Cambrian shales, 84M/1416; *Brunflo*, *Rödbrottet quarry*, Ordovician chondrite, general description primary minerals, 84M/4201; *Dala region*, pumpellyite-bearing rocks, extent of rock alteration as control of pumpellyite compn., 84M/1834; *Falun mine* and *Skellefte dist.*, chalcopyrite-pyrrhotite ores, heating expts., stability of intermediate solid soln., 84M/2699; *Graversfors granite*, radiometric dating, 84M/1206; *Jämtland*, *Seve nappes*, omphacites in high-*T* eclogite, petrofabrics, microstructures, 84M/3514; *Jofjället area*, greenstones related to rifting, ocean basin opening, 84M/0628; *Kavaltorp*, valleriite, thermal decompn., 84M/2702; *Kolsva*, chrysoberyl in metamorphosed pegmatites, formation, 84M/3204; *Långban*, thaumasite, thermal decompn., kinetics, 84M/0482; *Norra Kärr*, alkalic pluton, time of emplacement, 84M/3634; *Orust*, dykes, Rb/Sr isotopic equilibrium during Sveconorwegian deformation, metamorphism, 84M/3635; *Orust area*, *Stora Le-Marstrand belt*, Sveconorwegian granitoids, age relations, 84M/0010; *Pajsberg*, ganophyllite, new chem. data, comparison with Welsh, American, 84M/0796; *Särv nappe*, *Ottfjället dolerites*, age, metamorphism, $^{40}Ar/^{39}Ar$ data, 84M/0008; *Tännforsfältet*, *Köli nappes*, mylonites, pseudotachylites assoc. with thrusting, 84M/1118; *Väddö area*, folding of boudinaged layers, field and lab. study, 84M/1954; *Värmland*, Sundsta granite, Rb/Sr age, 84M/0011

Sweetite, *England*, *Derbyshire Milltown*, new mineral, data, 84M/3253

SWITZERLAND, U, Th extraction from granite, 84M/0558; microdistrib. of U, Th, 84M/0559; hot springs, geol., hydrogeol., isotope, geothermal data, 84M/0651; first geol. map, description, reproduction, 84M/0926; Solothurn limestone, lithology, min., quarries for, uses, 84M/0927; geol. research in since 1565, history, account, 84M/1993; *Aar massif*, *Visp area*, structural problems, 84M/0930; *Alps*, Cu-secondary minerals, 84M/1178; *western Alps*, northern hinge zone of arc, 84M/0931; *Bergell area*, mineral occurrences, references, 84M/1179; *Bern*, *Langete basin*, molasse sediments, petr., lithostratigraphy, 84M/1080; *Doldenhorn nappe*, calcite in syntectonic veins, origin, C-isotope ratio detn., 84M/0633; *Freiburg*, *Boulevard Pérolles*, building stones in, petr., occurrence, 84M/0928; *Glarner Frieberg*, *Mt. Hahnenstock*, fulgurite from summit, anal., 84M/3501; *Graubünden*, *Affeier*, Cu, U occurrences in Permocarboniferous strata, min., anals., 84M/0250; *Helvetic nappes*, calcite fabrics in natural shear environment, 84M/4321; *Helvetic thrust belt*, strain partitioning in from leading edge to internal zone, 84M/4320; *Lake Constance* [*Boden See*], sedimentation rate fluxes, anthropogenic metal fluxes, 84M/3944; *Lake Geneva*, sum of DDT, PCB's, HCB in sediments, 84M/3945; *Laufental*, karstic springs, isotopic measurements, 84M/0652; *Lepontiné Alps*, cordierite from, substitutions, gas content, cell parameters, optics, 84M/0774; *Pennine Alps*, tectonics, early accounts, 84M/0933; *Ticino*, *Maggia nappe*, structure of northern lobe, 84M/0932; *Urirotstock*, *Vierwaldstätter See*, diagenetic and regional Alpine metamorphism in sediments, new data, 84M/1126; *Valais*, *Embd*, U deposits, excursion details, maps, 84M/1457; *Monts-Dolins region*, dyke complex, oceanic metamorphism, evidence, 84M/1045; *Valle d'Ossola*, alpine cleft minerals, description, 84M/2311; *Zurich* and *St. Gallen*, weathering of sandstone building stones, petr., chem., 84M/0929

Syenite, porphyry, compn. of melt inclusions in phenocrysts, 84M/0953; aegirine-, mechanical characteristics, study, 84M/3583; *Greenland*, *Motzfeldt centre*, nepheline-, mafic silicates from, 84M/1841; *Norway*, *Oslo region*, chiavennite in pegmatite, data, 84M/0773; *Poland*, mineralization in metasomatic-hydrothermal alteration zones, 84M/4477; *USSR*, *Dzhugdzhur Range*, gabbro-syenites, genetic connection with apatite-ilmenite-titanomagnetite ores, 84M/0982; *Sudan*, *Jabal Dumbeir complex*, nepheline-, geochem., age, 84M/0986; *Canada*, *Superior Province*, probable Archaean nepheline syenite plutons, 84M/4394

Sylvanite, *Romania*, *Offenbanya-Baia de Arieş*, occurrence, 84M/2309

Sylvite, *Egypt*, *Lake Qarun*, from brine, geochem., 84M/1744

Symmetry, in minerals, statistical study, 84M/0150

Syngenite, *Italy*, *Latium*, *Cesano geothermal field*, occurrence, props., 84M/1906; *China*, *Hubei Prov.*, *Q basin*, in Eocene saline deposit, 84M/4270

SYRIA, lateritic Fe-ores, deposition, 84M/0263; *Baër-Bassit region*, Mesozoic-Cainozoic geol., outline, 84M/2068

Systems, containing Cr-oxide, equilibrium relations, 84M/0393; natural anhydrous mafic, low-*P* mineral-melt equilibria in, 84M/2719; felsic, distrib. of partial melt, importance of surface energy, 84M/2747

Ag–Au, 84M/2680

Ag_2S–Sb_2S_3–Ag_2S_3, 84M/0854

Al_2O_3–CaO–SiO_2–H_2O, 84M/0336

$BaCO_3$–$PbCO_3$, 84M/1911

$Ba_2TiGe_2O_8$–$Ba_2TiSi_2O_8$, 84M/4037

C–O–H–S, 84M/3956

$CaAl_2O_4$–SiO_2, 84M/2666

$CaAl_2Si_2O_8$–Mg_2SiO_4–SiO_2, 84M/4006

$CaAl_2Si_2O_8$–Mg_2SiO_4–Fe_2SiO_4–SiO_2, 84M/2027

$Ca_3Al_2Si_3O_{12}$–$Mg_3Al_2Si_3O_{12}$–7·5% H_2O at 30kbar, 84M/4007

$CaCO_3$–$BaCO_3$, 84M/1911

$CaCO_3$–$FeCO_3$, 84M/1597

$CaCO_3$–$MgCO_3$, 84M/3997

$CaCO_3$–$MnCO_3$, 84M/1597

$CaCO_3$–$PbCO_3$, 84M/1911

$CaCO_3$–$SrCO_3$, 84M/1911

$CaCO_3$–$MgCO_3$, 84M/1597

$CaCO_3$–$MgCO_3$–$FeCO_3$, 84M/1909, 84M/1597

$CaCO_3$–$MgCO_3$–H_2O, 84M/0384

$CaCO_3$–$MgCO_3$–$MnCO_3$, 84M/1597 84M/1909

$CaFe^{3+}AlSiO_6$–$CaTiAl_2O_6$, 84M/0164

$CaFeSiO_4$–Fe_2SiO_4, 84M/2720

$CaMgSi_2O_6$–$CaAl_2SiO_6$ glasses, 84M 2731

$CaMgSi_2O_6$–$CaAl_2Si_2O_8$, 84M/1564

$CaMgSi_2O_6$–$CaTiAl_2O_6$, 84M/1614

CaO–MgO–Al_2O_3–SiO_2, 84M/0460, 84M/1566; 84M/2715, 84M/4016

CaO–MgO–Al_2O_3–FeO–Na_2O SiO_2, 84M/1566

CaO–MgO–FeO–Al_2O_3–SiO_2, 84M/0461

CaO–MgO–FeO–SiO_2, 84M/1566

CaO–MgO Ca_2SiO_4–$Ca_4Al_2Fe_2O_{10}$, 84M/1565

CaO–MgO–ZrO_2, 84M/0409

CaOMgO–SiO_2KAlO_2–H_2O–CO_2, 84M/3979

$CdCO_3$–$MgCO_3$, 84M/1597

CH_4–H_2O, 84M/0446

Cr_2O_3–Fe_2O_3, 84M/2385

Cu–Co–S, 84M/1466

Cu–Fe–Co–S, 84M/1466

Cu–Fe–Se, 84M/0427

Cu–Fe–Zn–S, 84M/0851

Cu–S, 84M/0425

$CuFeS_2$–$CuFe_2S_3$, 84M/2699

Cu_2S–Bi_2S_3, 84M/0191

Fe–As–S, 84M/0851;

Fe–C–Sn, 84M/0399

Fe–Mn–Si–O, 84M/2721

Fe–S_2–O_2–SiO_2, 84M/3983

Fe–Zn–As–S, 84M/0851

Fe–Zn–S, 84M/0851

FeO–Fe_2O_3–TiO_2, 84M/0404

FeO–TiO_2–Al_2O_3–SiO_2–H_2O, 84M/2723

$FeSiO_3$–$MgSiO_3$–Al_2O_3, 84M/2716

Ga–In–As–H–Cl, 84M/2634

H_2O–CaO–MgO–SiO_2, 84M/1616

Systems (*contd.*)
H_2O–Na_2O–CaO–MgO–Al_2O_3–SiO_2, 84M/1616
H_2O–CO_2–NaCl, 84M/2658, 84M/2713
H_2O–NaCl, 84M/0400
$H_2PtCl_6.6H_2O$–silica gel, 84M/2682
K_2O–Al_2O_3–FeO–SiO_2, 84M/0358, 84M/0359, 84M/0360
K_2O–Al_2O_3–SiO_2, 84M/0478
Li_2O–Al_2O_3–ZrO_2, 84M/0413
Li_2O–Fe_2O_3–TiO_2, 84M/1580
Li_2O–Na_2O–ZrO_2, 84M/0413
$LiVO_3$–$NaVO_3$, 84M/0165
$MgAl_2O_4$–SiO_2, 84M/2666
MgO–Al_2O_3–SiO_2, 84M/1566
MgO–Al_2O_3–SiO_2, 84M/1607
MgO–Al_2O_3–SiO_2, 84M/4013
MgO–FeO–Fe_2O_3–$NaAlSi_3O_8$–$CaAl_2S_2O_8$–SiO_2, 84M/0346
MgO–FeO–SiO_2, 84M/4014
MgO–NiO, 84M/2385
MgO–SiO_2, 84M/0379
MgO–SiO_2, 84M/2649
MgO–Y_2O_3–ZrO_2, 84M/0409
MgO–ZrO_2–Fe_2O_3, 84M/0414
$MgSiO_3$–$LiScSi_2O_6$, 84M/3801, 84M/3802
$Mg_2Si_2O_6$–$MgAl_2SiO_6$–$MgCaSi_2O_6$, 84M/2728
Mn–Si–O, 84M/0463
$NaAlO_2$–SiO_2, 84M/2666
$NaAlO_2$–$KAlO_2$–$CaAl_2O_4$–Al_2SiO_5–SiO_2–H_2O, 84M/1572
$NaAlSiO_4$–LiAlSiO$_4$–Al_2O_3–H_2O, 84M/2752
NaCl–KCl–H_2O, 84M/0445
NaF–AlF_3 melts, 84M/0443, 84M/0444
Na–Fe–Mg–Si–C–O–H, 84M/0465
Na_2O–Al_2O_3–SiO_2–Fe–O, 84M/4035
$Na_2O.xSiO_2$–Fe–O, 84M/3975
NaOH–B_2O_3–H_2O, 84M/2695
Ne–Au–Ks–Q, 84M/3180
$NiAl_2O_4$–Ni_2SiO_4, 84M/3974
NiO–Cr_2O_3, 84M/1585
NiO–ZnO, 84M/2385
Ni_2SiO_4–$NiAl_2O_4$, 84M/2654
Pb–As–S, 84M/0854
Pb–Bi–S, 84M/0854
Pb–Sb–S, 84M/0854
Si–O, 84M/2634
SnO_2–GeO_2–Na_2O–H_2O, 84M/2539
$SrCO_3$–$BaCO_3$, 84M/1911
$SrCO_3$–$PbCO_3$, 84M/1911
$SrTiO_3$–$BaTiO_3$, 84M/2385
ZrO_2–CaO, 84M/0412
ZrO_2–CeO_2, 84M/1584
albite-diopside, 84M/0357
biotite-garnet, 84M/1566
clinopyroxene-garnet, 84M/1566
cordierite-garnet-biotite, 84M/2643
diopside-anorthite, 84M/1563
diopside-jadeite, 84M/1839
diopside-jadeite-quartz, 84M/1566
diopside-melt, 84M/0371
erbia-hafnia, 84M/0416
forsterite-anorthite-diopside, 84M/2715
granite–SnO–SnO_2–fluid, 84M/0391
magnesia-R_2O_3-silicate, 84M/0415
muscovite-paragonite-alkali feldspars-H_2O–CO_2, 84M/0471
nepheline-diopside-apatite, 84M/1612
nepheline-eudialyte, 84M/4012
orthopyroxene + plagioclase ⇌ garnet + clinopyroxene + quartz, 84M/0455
pyroxene-apatite-villiaumite, 84M/0392
quartz-orthoclase-albite, 84M/2750
spinel-olivine, 84M/1566
Száibelyite, *China*, *Dading Sn-Fe deposit* occurrence, 84M/3123; *Japan*, *Ehime Pref.*, *Irazuyama*, occurrence, X-ray data, 84M/4579

Taaffeite, equality with taprobanite, nomenclature problem, 84M/0493; faceted stones, description, 84M/0499; gemmological props., ident., discovery, 84M/1647; *Sri Lanka*, recent finds, 84M/2770
Taeniolite *v.* mica
TAIWAN, *Central Mtn. Range*, Tailuko Gorge, metamorphic rocks, min. parageneses in, 84M/3550; *Fengtien nephrite deposit*, uvarovite, Cr-grossular, data, 84M/1825; *Mu Kua Chi area*, greenschist facies rocks, min., 84M/4498; *Peito Hot Spring*, Pb-bearing baryte (hokutolite), lattice constants, Sr, Ca contents, relationship, 84M/4267
Takovite, anion exchange in, applications to other hydroxides, X-ray data, 84M/2698
Talc, bacterial breakdown, 84M/0361; high-resolution TEM study, 84M/0775; hydrated, exptl. formation from pectolite, 84M/1619; IR OH-stretch bands in, influences of electronic configuration, site of charge compensation, 84M/2520; beam damage in the electron microscope, 84M/2725; solid soln. with willemseite, hydrothermal synthesis, props., 84M/2739; *Yugoslavia*, *Inner Dinarides ophiolite complex*, in ultramafic rocks, 84M/2139; *Canada*, *Quebec*, *Mattagami Lake mine*, coprecipitation with sulphides in sea-floor brine pool, geochem., O-isotope, min. chem. evidence, 84M/1696; *USA*, *Vermont*, *Post Pond series*, intergrown with wonesite, biotite, chlorite, kaolinite, microstruct., 84M/0172; *north western Atlantic Ocean*, in suspended matter, possible origins, 84M/1539
—, deposits, *South Australia*, *Gumeracha*, reserves, review, 84M/2612; *USA*, *North Carolina*, *Murphy*, mixed-layer chlorites assoc. with, 84M/0298
Tamarugite, *Italy*, *Tuscany*, *Cetine mine*, occurrence, 84M/4568; *Vulcano*, incrustations in altered pyroclastic rocks, anals., opt., DTA, TG, 84M/0867
Tancoite, crystal structure, 84M/2547
Taneyamalite, *Japan*, *Kumamoto Pref.*, *Taneyama mine*, new Mn-silicate, props., 84M/1847
Tantalite-columbite, *USA*, *Virginia*, *Herbb no. 2 pegmatite*, occurrence, 84M/1636
Tantalum, traces in Sn minerals, rapid spectrophotometric detn., 84M/2422; *South Bulgaria*, in granitoids, geochem., 84M/1725; *China*, *Fujian Prov.*, in rare-metal pegmatite, geol., geochem., 84M/1476
—, deposits, *Australia*, *Queensland*, *Gilberton area*, in pegmatites, 84M/2579
—, minerals, euhedral crystals from metasomatic processes, possible mechanism of formation, 84M/1550
—, -niobium minerals, *Argentina*, *Catamarca*, *Hombre Muerto*, in veins in gneisses/schists, 84M/0278
Tantite, *USSR*, *Kola Peninsula*, new mineral, props., 84M/1940
TANZANIA, gem peridot, new locality, anals., 84M/0492; soil phosphate adsorption, effects of Fe-oxides on, 84M/1301; aeromagnetic, radiometric maps for min. exploration, integrated interpretation, 84M/1430; *coastal area*, source bed anal. in Karroo basins, 84M/3054; *Kerimasi volcano*, natrocarbonatite tephra, first pre-modern natrocarbonatite volcanism, 84M/2059; *Oldoinyo Lengai*, carbonatite tuffs, chem., stable isotope anals., comparison with German, 84M/0571; *Umba Valley*, cat's-eye apatite, new gemstone variety, 84M/0497
Taprobanite, equality with taaffeite, nomenclature problem, 84M/0493
Tektites, Ni–Fe spherules in, 84M/3117; intrinsic f_{O_2} measurement, 84M/4199; *China*, *Qionglei*, chem. compn., prelim. study, 84M/3118
Tellurides, *Hungary*, *Faczebaja-Faţa Băii*, of Au, brief description, 84M/2308; *Australia*, *Queensland*, *Mount Hogan*, Au-tellurides, occurrence, 84M/2579
Tellurium, content in geochem. reference samples by mass spectrometric isotope dilution anal., 84M/0723; abundances, anomalous behaviour, 84M/4061
—, compounds, TeO_2, thermal expansion data, 84M/4537
Tengerite, *Japan*, *Shikoku*, *Takanawa Peninsula*, pegmatite occurrence, 84M/4574
Tennantite, *Germany*, *Müllenbach*, in U deposit, paragenesis, 84M/1485; *Spain*, *Granada*, *Molvizar deposit*, opt., chem., ore deposit data, 84M/3213
—, -tetrahedrite series, *Channel Islands*, *Sark*, *Sark's Hope mine*, occurrence, microprobe anals., 84M/0853
Tenorite, *Bulgaria*, *Kremikovci deposit*, with paraschachnerite grains, 84M/0822; *USA*, *Arizona*, *Tiger*, possible cause of black coloration in dioptase, 84M/4611
Tephra, *New Zealand*, *Coromandel Peninsula*, mixed Late Quaternary sequence, 84M/1036; *Tanzania*, *Kerimasi volcano*, natrocarbonatite, 84M/2059
Tephroite, *Australia*, *NSW*, *Broken Hill*, ferroan, formerly thought to be roepperite, 84M/1822
Terbium, distrib. in ilmenite from various igneous rocks, 84M/1667
Terrae rossae *v.* soils
Terskite, *USSR*, *Kola Peninsula*, *Lovozero massif*, new mineral, 84M/0894
Tertiary-Cretaceous boundary, clay mineralogy at, 84M/2478; thermal neutrons as possible cause of extinctions 65 m.y. ago, 84M/2802; isotopic study of sediments, evidence for asteroidal impact, 84M/3115; *Spain*, *Italy*, *central Pacific Ocean*, spherules at, result of extraterrestrial impact, 84M/1819; *USA*, *New Mexico* and *Colorado*, *Raton basin*, tr. element patterns at non-marine boundary, 84M/4207
—, rocks, igneous in Tertiary province, origin, recent ideas, 84M/4357; *Greenland*, *Hold with Hope* and *Wollaston Foreland*, flood basalts, petr., 84M/3338; *Myggbukta* and *Kap Broer Ruys*, possible most northerly of Greenland Tertiary igneous centres, 84M/4359; *Scotland*, stratigraphy, petrography, tectonics, volcanism, 84M/0918; igneous activity, 84M/0919; *Belgium*, building stones, microscopic, heavy min-

Tertiary rocks (*contd.*)
eral study, 84M/1992; *Germany, Hessian depression*, basaltic, chem., 84M/4368; *China, Jiyang Depression*, oil-generating, geochem., 84M/1795; *New Zealand, South Island, West Coast*, sedimentary, densities, 84M/1159; *Nigeria, Akukwa-2 well*, shales, petroleum geochem., 84M/1793; *southern South America*, magmatic intervals, transgression-regression cycles, oceanic events, 84M/4347; *North Sea, Erlend volcanic complex*, internal structure, seismic study, 84M/3341
Teschemacherite, structure refinement, 84M/3850
Tethys, carbonate tr. element and stable isotope geochem., comparison with DSDP hole 516F samples, 84M/2977; birth in Himalayan segment, volcanic rock evidence, 84M/3373; *Turkey, Ankara mélange*, closure reconstruction, importance of mélange, 84M/3457
Tetradymite, *Austria, Waschgang*, in Au-Cu deposit, ore mineralogy, anal., 84M/3902
Tetraferribiotite *v.* mica
Tetraferriphlogopite *v.* mica
Tetrahedrite, synthetic Zn-, Cd-, Fe-, substitution of Ag into, 84M/1591; ferriferous, reaction-rim texture, calculation from published data, 84M/1592; oxidation, 84M/1593; *Germany, Clara mine*, occurrence, paragenesis, 84M/4562; *Müllenbach*, in U deposit, paragenesis, 84M/1485; *Switzerland, Affeier*, occurrence in Permocarboniferous strata, min., anals., formula, 84M/0250; *India, Kolar*, new locality, anal., 84M/3883; *Australia, Queensland, Gilberton area*, with Au mineralization, 84M/2579
THAILAND, kaolinite, growth spirals on etched crystals, 84M/0107
Thalenite, *Japan, Ehime Pref.*, Mt. Ooto, occurrence, X-ray data, 84M/4578
Thallium, *Belgium*, content in Fe-sulphides, 84M/1897
Thaumasite, bacterial breakdown, 84M/0361; *Sweden, Långban*, thermal decompn., kinetics, 84M/0482; *Japan, Yamagata Pref., Irakawa*, occurrence, opt., 84M/4272
Thenardite, *Spain*, in efflorescences in a Typic Salorthid, 84M/0866; *Laguna de Tirez*, prismatic crystals in playa lake sequence, 84M/1074; *China, Hubei Prov., Q basin*, in Eogene saline deposit, 84M/4270; *USA, Arizona, Camp Verde*, occurrence, 84M/2322
Thermal analysis, and Earth sciences, uses, applications, 84M/2447
—, conductivity, of solids at high *T*, theory, 84M/4541; solid rock, comparison of divided bar and 'Quick Thermal Meter' apparatus for detn., 84M/4549; *Denmark, Bornholm*, of Precambrian, Palaeozoic, Mesozoic rocks, *in situ* measurement, 84M/1168
—, springs *v.* springs, thermal
—, waters *v.* geothermal waters
Thermobarometry, solid solutions, solvi in metamorphic carbonates, applications, 84M/1909; igneous complexes, 84M/2862
Thermodynamics, of minerals, reactions, aqueous solns. at high *P*, *T*, errata in previous papers, 84M/0335; of selected mins. in system Al_2O_3–CaO–SiO_2–H_2O, 84M/0336; evaluation of ternary from Knudsen-cell mass spectrometry studies, 84M/0342; cessation of flow between Bridgman anvils, 84M/0343; dissolution of solid soln., theory, exptl., 84M/0363; transport of W in aqueous gas phase above 500°C, data, 84M/0420; system Cu-S, data, 84M/0425; alkali-metal vapour transport in silicate system, 84M/0478; props. of pollucite, 84M/0480; Gibb's method for analytical formulation of phase equilibria, 84M/1547; solute complexes, extraction-quench technique for detn., application, 84M/1557; loss of free energy after grinding quartz, 84M/1627; of complex phases, 84M/2644; natrolite, mesolite, scolecite, 84M/2647; ephesite, stability, compatability relations, standard state data, 84M/2751; model for subsolidus equilibria in system CaO–MgO–Al_2O_3–SiO_2, 84M/4016
Thermodynamic data, computer assessment, 84M/0337
Thermoluminescence, synthetic hydrothermal scheelites, 84M/0419; induced in phyllosilicates, parameters, crystal defect study, 84M/2462; zircon sand, glow peaks, 84M/3575; low-*T* of marble, possible correlation with stress history, 84M/3576; *India, Gujarat, Amba Dongar mine*, blue fluorite, glow peaks, 84M/3574
—, dating *v.* age determination
Thermophysical properties, separation of anharmonic, vacancy effects, 84M/4542
Thin sections, of soils, motorized grinder for, 84M/3670; one-stage precision polishing technique, 84M/3671
Thiosulphates, *Mediterranean Sea*, in ooze solutions, 84M/0600
Thomsonite *v.* zeolites
Thorite, *Canada, British Columbia, Surprise Lake*, accessory mineral., anals., 84M/2938
Thorium, detn. of ultra-trace amounts in NIM-D, NIM-P standard samples, 84M/0725; in Chinese Bureau of U Geology standard ore samples, anal. procedures, values, 84M/0727; substitution, inclusion, in synthetic chlorapatite, 84M/1601; partitioning between whitlockite/liquid, lab. study, 84M/2661; content in mid ocean ridge basalt glasses, 84M/4095; *Norway, Svalbard, Janusfjellet formation*, distrib. in black shales, 84M/2964; *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Switzerland*, extraction from granite, 84M/0558; microdistrib., 84M/0559; *Japan, Kitakami Mtns.*, in Cretaceous plutons, 84M/0997; *north west Africa*, content in Late Proterozoic volcanic rocks, 84M/2885; *Canada, British Columbia, Coryell batholith*, in alkaline intrusions, 84M/2925; *Guichon Creek*, behaviour during batholith evolution, 84M/2927; *Nova Scotia, South Mtn. batholith*, geochem., distrib., genetic and exploration implications, 84M/2923; *USA, Virginia, Culpeper basin* and *vicinity*, regional values, total-count aeroradiometric contour map, 84M/1658; *Indian* and *Pacific Oceans*, content of bottom sediments, 84M/0608
—, compounds, ThO_2, thermal expansion data, 84M/4537
—, isotopes, ^{230}Th in CCRMP reference samples detn. by α-spectroscopy, 84M/0722; *Japan, Funka Bay*, ^{234}Th, removal from surface water, biological effect, 84M/2626; *USA, Narragansett Bay*, coastal mobility of natural, model and real data 84M/0321; *north west Pacific Ocean*, α-emitting in deep waters, 84M/1785; *Panama* and *Guatemala Basins*, ^{230}Th removal at ocean margins, 84M/2989
Thorogummite, *Japan, Shikoku, Takanawa Peninsula*, pegmatite occurrence, 84M/4574; *USA, Virginia, Lovingston formation*, in vein type U deposits, 84M/1697
Thoron, exhalation, problem of effect of soil thermal gradients, 84M/2963
Thortveitite, *Japan, Kyoto Pref., Isanago mine*, morphology, X-ray data, 84M/4592
Thrusting and thrust zones *v.* rock deformation
Tibet v. China, Tibet
TIBET-HIMALAYA, orogenic belt, structure, evolution, 84M/4618
Tiemannite, *Belgium, Daverdisse*, in quartzite, quartz veins, 84M/1483
Till, interpretation of textural, min. anals., influence of local bedrock, 84M/2227; *Norway, Åstadalen*, basal, min., geochem., relationship to till-forming processes, 84M/1764; *Finland, Petäinen area*, metal content, min. compn., effect of Outokumpu area rocks on, 84M/0671
Tillite, *Canada, south east Newfoundland*, new finds, significance to east-west correlation of Proterozoic formations, 84M/3492
Timor v. Indonesia
Tin, detn. in samples by XRF spectrometry, 84M/0075; partitioning between melt, chloride fluid in system granite-SnO-SnO_2-fluid, 84M/0391; crustal abundance, application of spark source mass spectrometry, 84M/0513; occurrence, relationship with Au in deposits, 84M/0535; future in USA and World economy, (book), 84M/1256; hydrothermal reactions during skarn formation, 84M/3859; native, physicochem. formation conditions in igneous magmas, 84M/4093; *Ireland, Co. Mayo, Doolough Point area*, content in stanniferous granite gneiss, 84M/3000; *West Carpathians, Spis-Gemer region*, in granites, petr., geochem., comparisons, 84M/0565
—, -bearing rocks, granitic, geochem., 84M/4098
—, compounds, SnO_2, solid solubility of GeO_2 in, 84M/1586; SnO_2, thermal expansion data, 84M/4537; $Sn_2Sb_2S_5$, structure, 84M/1394
—, deposits, *England, Cornwall, Goonbarrow china clay pit*, sheeted, assoc. with economic kaolinization, 84M/1682; *Poland, Kamienickie Range*, in Izera schists, origin, 84M/1462; *France, Brioude–Massiac dist.*, with W, Au, fluid inclusion study, 84M/3875; *Portugal*, geochem., min. surveys for, 84M/3037; *China, Dading*, geochem. problems, 84M/3123; *Yunnan, Geiju*, mineralization problems, 84M/1472; *Australia, NSW, New England*, in granite, fluid inclusion study, 84M/1502; *north Mexico*, petr., geochem. of rhyolites assoc. with, 84M/3862
—, minerals, rapid spectrophotometric detn. of Ta traces, 84M/2422; *USSR, south east Pamirs*, fluorite as indicator of ores, 84M/0533; *Japan, Hokkaido, Toyoha mine*

Tin, minerals (*contd.*)
new occurrence, ore mineral study, 84M/3904
—, mining, *Turkey*, significance, history, 84M/1183
Tintinaite, microprobe data, 84M/3209
Tinzenite, *Italy*, occurrences, description, 84M/2313
Tiragalloite, *Italy*, occurrences, description, 84M/2313
Tirodite *v.* amphibole, tirodite
Titanates, crystalline, use in radionuclide containment, 84M/0325; orthorhombic α'-Ba_2TiO_4, structure, 84M/3832; $BaTiO_3$, flux growth of bulky crystals, 84M/2689; $CaTiO_3$, crystal structure, 84M/1387; $ZrTiO_4$, $ZrTiO_4$–SnO_2 solid solns., phase transitions, 84M/0408; *South Australia*, *Moomba area*, magnetic Fe(Mg,Mn)-titanate from sand, 84M/3194; *South Africa*, *Jagersfontein*, new, in kimberlite, min. chem., implications for upper mantle metasomatism, 84M/2821
Titanium, future in USA and World economy, (book), 84M/1256; bonds with O, bond length-bond strength relationships at any oxidation state, 84M/1355; detn. in glass sands after decompn. by acid vapour, 84M/3684; *west Greenland*, interlayer substituent in biotite, 84M/3155
—, compounds, TiO, thermal expansion data, 84M/4536; TiO_2, detn., anal. method, 84M/0070; TiO_2, thermal expansion data, 84M/4537
—, mineralization, *USSR*, *Transbaikal*, *Kalar massif*, in anorthosite, 84M/0270
—, ores, *USSR*, *Ukrainian Shield*, *Korosten' massif*, min. peculiarities, 84M/1491
titanomagnetite, cation diffusion in, 84M/3987; *Czechoslovakia*, *Bohemian Massif*, changes of structure, phase compn., electrical conductivity under high-*T* oxidation, 84M/0405
tobelite *v.* mica
tobermorite, 11Å, content in hydrothermal process products, detn., 84M/1244; new family of cation exchanges, 84M/2606
tochilinite, *Japan*, *Iwate Pref.*, *Kamaishi mine*, occurrence with Cu-tochilinite, opt., microprobe anals., 84M/1890; *Western Australia*, *Mount Keith*, replacing pentlandite-pyrrhotite in serpentinites, 84M/0848
todorokite, Gibbs energy, 84M/1587; todorokite-buserite problem, implications for marine Mn-nodule min., 84M/3206; possible cause of 7Å X-ray reflection in Mn-nodules, 84M/3207; *Solomon Islands*, formation in exhalative environment, 84M/1880; *Philippine Sea*, constituent of Mn nodules, 84M/4090
tolbachite, *USSR*, *Kurile-Kamchatka volcanic field*, *Tolbachin eruption*, new mineral, props., 84M/1941
topaz, beam damage in the electron microscope, 84M/2725; *Finland*, occurrences, 84M/4055; *USSR*, *Volyn' region*, *Shatsk Lakes*, from littoral sands, origin, 84M/1830; *Pakistan*, *Peshawar*, *Katlang*, rose-coloured gem quality, anal., props., 84M/2767; *USA*, *New Hampshire*, *Government Pit*, occurrence, brief description, 84M/2315; *Virginia*, *Herbb no. 2 pegmatite*, large colourless gem-quality crystal, discovery in dump, 84M/1636; *Brazil*, *Ouro Preto*, *Capao mine*, mining, details, 84M/0490; 'imperial' topaz deposit, hist., geol., genesis, 84M/0491
—, bearing rocks, *western USA*, rhyolites, petrogenesis, 84M/2047
Torbernite, *Belgium*, *Daverdisse*, in quartzites, quartz veins, 84M/1483; *India*, *Singhbhum shear zone*, in apatite-magnetite rocks, 84M/1469
Torfovivianite *v.* vivianite
Torridonian rocks, *Scotland*, age, lithology 84M/0909
Tourmaline, natural etching of detrital, SEM study, 84M/1057; red, gemmological props., ident., discovery, 84M/1647; various positions of B in, 84M/2513; cabochon with 23 colour zones, description, 84M/2768; *Finland*, green, occurrences, 84M/4055; *Bulgaria*, *Markova Trapeza deposit*, in pegmatite, 84M/0777; *China*, crystals, new find, 84M/4571; *south Tibet*, from granite, 84M/0776
—, buergerite, *Mexico*, replacement of OH ions, Si-O tetrahedra by BO_3 groups, 84M/2513
—, chromdravite, *USSR*, *Karelia*, *Onezhskii*, new mineral, 84M/0881
—, dravite, *Japan*, *Aichi Pref.*, *Otowa-cho*, in bedded Mn-ore, 84M/4577
—, tsilaisite, *Zambia*, intense yellow gem quality, 84M/4050
Tourmalinites, *Ireland*, *Leinster granite*, in aureole, relation to marginal sulphide mineralization, 84M/1683
Trace elements *v.* elements, trace
Trachyandesite, *Ascension Island*, petr., 84M/2060
Trachybasalt, *Ascension Island*, petr., 84M/2060
Trachydolerite, *Mauritius*, *Port Louis area*, petr., 84M/0990
Trachyte, *USA*, *Texas*, *Paisano volcano*, suite with peralkaline rhyolite, origin, 84M/1016; *Ascension Island*, petr., 84M/2060
Transition elements *v.* elements, transition
Travertine, *Italy*, *Rome*, quarrying, use of diamond wire, 84M/1239
Tremolite *v.* amphibole, tremolite
Triassic rocks, supposed Permo-Trias megashear between Laurasia, Gondwana, 84M/3616; *central England*, diagenetic processes, mineralization, 84M/1681; *England*, *Avon*, *Aust Cliff*, playa cycles in Mercia mudstone, 84M/4448; *East Midlands*, and *Wessex Basin*, sandstones, dissolved U in groundwaters, U contents, $^{234}U/^{238}U$ activity ratios, 84M/3009; *Scotland*, palaeogeog., structure, geol., 84M/0917; *Poland*, *Góry Świętokrzyskie Mtns.*, *Skoki area*, clay raw materials, min., 84M/3768; *France*, *Aquitaine*, structural, sedimentary reinterpretation, 84M/1071; *Germany*, *Pfäffingen* and *Schwenningen*, gypsum-bearing Keuper, lithology, min. compn., 84M/2486; *Italy*, *Lucania*, *Lagonegro*, siliceous limestones, chert-dolomite laminations in, 84M/2209; *Carpathians*, *West Tatra Mtns.*, *Krížna nappe*, sediments, lithological, geochem. characterization, 84M/0599; *China*, *south Jinangsu to Xizang*, marine gypsum deposits, 84M/2220; *Morocco*, *Haut Atlas*, deposition, reactivation of ancient faults, 84M/1085
Tridymite, *Northern Ireland*, *Tardree Mtn.*, low-, space group, 84M/0808; *Spain*, *Tagus basin*, α-, new texture for in silicious rocks, 84M/3474
Trimerite, thermal expansion, 84M/4540
Triphylite, *England*, *Cornwall*, *Megiliggar Rocks*, occurrence, microprobe anals., cell, 84M/1912; *Germany*, *Hagendorf Süd*, tonnage mined, 84M/0876
Triplite, *England*, *Cornwall*, *Megiliggar Rocks*, occurrence, microprobe anals., 84M/1912; *Canada*, *Nova Scotia*, *East Kemptville*, occurrence, anal., 84M/1913
Tripuhyite, *Japan*, *Gifu Pref.*, *Kinka mine*, first Japanese, data, 84M/4585
TRISTAN DA CUNHA, rock $^{176}Hf/^{177}Hf$ ratios, comparisons, 84M/0583
Troilite, high-*T* oxidation, S-isotope effects, 84M/2697; *Cyprus*, *Limassol Forest*, in serpentinite, 84M/2075
Trona deposits, *China*. *Henan Prov.*, *Wucheng*, geol., genesis, prelim. study, 84M/3926
Trondhjemite, *Canada*, *Ontario*, *Elzevir batholith*, intrusions, petrogenesis, 84M/1009; *Wawa area*, stock adjacent to Archaean volcanic-exhalative system, 84M/4512
Tsilaisite *v.* tourmaline
Tsumoite, *India*, *Kolar*, new locality, anal., 84M/3883
Tuff, bedded, subsidence in diatremes, fluidization mechanism for, 84M/1020; *Wales*, *south* and *borders*, Townsend tuff, clay min. assemblages in, 84M/0115; *Italy*, *Roccamonfina volcano*, white trachytic, 84M/3421; *Portugal*, *Lisbon volcanic complex*, volcanic, tr. element geochem., 84M/2879; *Jugoslavia*, *central Croatia* and *west Slavonia*, accessory apatite in, 84M/4279; *India*, *Andhra Pradesh*, *Mangapeta area*, welded, crystal, petr., geochem., 84M/3428; *Himalaya*, *Mangsu La area*, magnetite bearing, 84M/3427; *Indonesia*, *Toba depression*, regional geol., evolution, 84M/3318; *Papua New Guinea*, *Port Moresby*, silicified, exposures, geol. excursion guide details, 84M/0944; *south eastern Australia*, submarine 'crystal tuffs', origin, Lower Devonian example, 84M/3432; *Sumatra*, glass inclusions, melt compns., 84M/1030; *Ethiopia*, *Middle Awash dist.*, geochron., geochem., stratigraphy of Cindery Tuff, 84M/3651; *Canary Islands* and *Italy*, *Pantelleria*, rheomorphism of welded, 84M/1023; *USA*, *Colorado*, *Denver area*, Cretaceous kaolinitic altered, goyazite content, 84M/4282; *south east Peru*, *RE* element enriched S-type ash-flow containing phenocrysts, 84M/2954; *Chile*, *southern Andes*, Loma Seca tuff, discovery, 84M/4423; *Antarctic Peninsula*, *southern Bransfield Strait*, overlying metasediments, geol., 84M/4333; *Graham Land*, *Nordenskjöld formation*, with Jurassic radiolarian mudstone, 84M/1100
—, carbonatite *v.* carbonatites
—, clinoptilolite-, use in removing NH_4, Fe from drinking water, 84M/1532; *Czechoslovakia*, *Nižný Hrabovec*, *T*-stability, 84M/0481; *Japan*, *Akita Pref.*, *Futatsui*, changes in props. by Na-hydrate soln. treatment, 84M/0397; effect of acid soln. treatment on chromatographic props., 84M/0398
-, cones, *v.* volcanic cones

Tuffite, *Czechoslovakia, Nižný Hrabovec*, zeolitic, min., props., possible uses, 84M/0301; *Czechoslovakia, Nižný Hrabovec*, zeolitic, detn. of clinoptilolite content, 84M/0811
Tugtupite, gemmological props., ident., discovery, 84M/1647
Tulameenite, new Ni analogue, 84M/1928
Tungstates, sodalite-like $Ca_8[Al_{12}O_{24}](WO_4)_2$, structure, 84M/3833
Tungsten, detn. in samples by XRF spectrometry, 84M/0075; transport in aqueous gas phase above 500°C, thermodynamic data, 84M/0420; future in USA and World economy, (book), 84M/1256; thermal expansion from 10-3400°K, 84M/4533
—, deposits, vein type, migration zoning and mineralization enrichment, mechanism, 84M/3869; vein type, lowered ore-forming metal-content field surrounding, prelim. study, 84M/3872; *England, Cornwall, Goonbarrow china clay pit*, sheeted, assoc. with economic kaolinization, 84M/1682; *Devon, Hemerdon*, detection of buried by soil gases, effects of meteorological variables on, 84M/3034; *USSR, Tamvatney ore cluster*, in listvenite, relationship to igneous activity, use of geophys. data, 84M/1689; *Transbaikal, Dzhida orefield*, genetic features, 84M/0269; *France, Brioude-Massiac dist.*, with Sn, Au, fluid inclusion study, 84M/3875; *Portugal*, geochem., min. surveys for, 84M/3037; *China, northern Guangdong*, types, characteristics, 84M/1471; *Jiangxi Prov., Yangchuling*, porphyry type, geol. characteristics, 84M/3911; *Lianhuashan*, K/Ar dating, 84M/2350; prelim. isotope studies, 84M/2851; geol., geochem. characteristics, 84M/2852; *Nei Monggol, Taipushi*, change of tenor with depth, cause, implications, 84M/3870; *Xihuashan*, metallization linking magmatic deuteric infiltration with hydrothermal lodes, 84M/1691; *Korea, Dae Hwa (Yaewha)*, geochem., 84M/1497; *Weolag*, metamorphic, ore-forming events, C, H, O, S isotope and fluid inclusion studies, 84M/4088; *Australia, NSW, Broken Hill block*, stratiform/stratabound mineralization, 84M/0291; *Queensland, Gilberton area*, in pegmatites, 84M/2579; *Mount Cobalt*, geol., suggested genesis, 84M/2600
Tungstite, *Bulgaria, Grânčarica deposit*, first Bulgarian occurrence, data, 84M/0842
Turbidites, *Germany, Rheinische Schiefengebirge*, Devonian, Carboniferous, tectonic significance, 84M/3260; *Namibia, Damara orogen*, geol., 84M/3278; *north Chile*, subduction of Palaeozoic, resulting deformation, 84M/3466; *Antarctic Peninsula, southern Bransfield Strait*, deformed and metamorphosed, geol., 84M/4333
TURKEY, lineaments, Landsat imagery, relation to mineralization, earthquakes, min. waters, hot springs, 84M/0237; detrital Fe-ores, deposition, 84M/0263; Sn mining, significance, history, 84M/1183; Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite from alpine-type deposits, 84M/4249; *north*, neotectonics, implications for 'incompatible' structures along North Anatolian fault, 84M/1955; enigmatic structures in North Anatolian fault zone, tectonic interpretation, 84M/1956; *western Anatolia*, granite intrusions, K/Ar ages, 84M/0019; *Anatolia, Ankara mélange*, importance for Tethyan closure reconstruction, 84M/3457; *Antalya*, magmatic cumulates, evidence for multiple intrusions in ophiolitic magma chamber, 84M/2105; *Antalya, Aydap-Yulari deposits*, Pb-Zn deposits, genesis, remobilization, 84M/0258; *Kicik, Endişegüney* and *Seyfe*, stratabound baryte-galena mineralization, relation with gangue minerals, genesis, 84M/0259; *south west Antalya complex*, sedimentary history, 84M/0936; *Antalya complex, Alanya complex* and *Hatay region*, Mesozoic-Cainozoic geol., outline, 84M/2068; *Avnik area*, metamorphic feldspathization of metavolcanics, granitoids, 84M/2263; *Bitlis massif*, age, new results, 84M/1131; disrupted Tethyan ophiolite, lithology, 84M/2094; *Çangal metaophiolite*, min., petr., metamorphism conditions, 84M/3458; *Demirci-Selendi area*, Cainozoic volcanites, petr., implications for origin, 84M/3358; *Elaziğ, Guleman deposits*, peridotites, and chromite, geol., struct., 84M/0257; *Guleman-Elazig area, Bati Kef chromite deposit*, distrib. of Pt group elements, 84M/3903; *Kastamona prov., Büyükçay-Elmaliçay granitoid*, min., petr., geochem., 84M/3359; *Lycian nappes, Ören area*, regional chloritoid assemblages, min. chem., 84M/3129; *Manisa-Turgutlu, Çaldağ*, lateritic Fe, Ni-Co deposits, min., 84M/0260; *Orhaneli massif*, ultramafic massif, geol., chromite anals., 84M/2137; *Pontic Ranges*, Upper Cretaceous volcanic rocks, geochem., 84M/0977; basaltoids and ores, palaeomagnetic study, 84M/1198; *Sivrihisar-Balçikhisar*, palaeosubduction zone, min., 84M/3539
Turquoise, imitation, descriptions, 84M/0499; ident. by IR, XRD, 84M/4054; *Poland, Wroclaw*, occurrence, description, 84M/1648
Tuscanite, intergrowths with latiumite, EM study, 84M/3186
Twinnite, microprobe data, 84M/3209; *Yugoslavia, Rujevac*, assoc. with zinckenite, plagionite, 84M/3210
Typomorphism, of dioctahedral micas in Au ore deposits, 84M/3150
Tysonite, synthetic, crystal structure, 84M/1407

UGANDA, *south west*, pyroxenes from leucite-bearing and related assemblages, chem. significance, 84M/3140
Ullmannite, *India, Kolar*, new locality, anal., 84M/3883
Ultrabasic rocks, chem. characteristics of minerals in, relations to metallogenesis, 84M/2553; from continental crust, *RE* elements in, 84M/2809; *USSR, Kurilo-Kamchatka arc*, in abyssal fracture zones, structural transformations, 84M/3366; *India, Ladakh, Dras area*, petr., chem. characteristics, 84M/2114
—, nodules, *Chile, Antofagasta area*, in crystalline basement gabbroic rocks, petr., 84M/2958
Ultramafic complexes, *Turkey, Orhaneli*, geol., chromite anals., 84M/2137; *Australia, NSW, Great Serpentine Belt*, in Palaeozoic arc, 84M/2132; *Tasmania*, Cambrian ophiolitic, geol. environment, petr., tectonic significance, 84M/2133; *Ethiopia, Tulu Dimitri*, geochem. data, genetic significance, 84M/2882
—, cumulates *v.* cumulates
—, inclusions, in kimberlite, geochem., 84M/3959
—, rocks, secondary min. formation, role of serpentine dehydration, 84M/0469; alkalic, distrib. of Sr, Ba, *RE* elements in mins., 84M/0551; stability, compn. relations of calcic amphiboles in, 84M/1616; Pt-bearing, petrogenesis, 84M/3330; magnesite deposits assoc. with, applications of exptl. genesis studies, 84M/3998; *Greenland, Fiskenæsset*, metasomatic zoned pod, *RE* element distrib., 84M/1714; *Scotland, Ballantrae complex*, concealed bodies, borehole results, 84M/4364; *USSR, Altai-Sayan region*, chrome-chlorites (kämmererites) from, new data, 84M/3165; *north east, Aldan Shield* and *Urals*, Pt-group mins. in, paragenesis, 84M/0818; *Koryak Mtns., Maynits tectonic zone*, genesis, 84M/2023; *Germany, Münchberg massif*, U/Pb zircon dating, 84M/2087; *Austria, Styria, eastern central Alps*, pre-Alpine, possible ophiolite origin, 84M/2128; *Italy, southern Calabria*, petr., 84M/3538; *West Carpathians*, sulphidic Ni-Co-Fe ores in, 84M/0252; *Yugoslavia, Inner Dinarides*, in ophiolite, non-metallic minerals of, 84M/2139; *Greece, Chalkidiki complex*, textural features and chem. characteristics of chromite in, 84M/3196; *Australia, NSW, Walcha area*, inclusions from nepheline mugearite, 84M/3384; *Victoria, Bullenmerri* and *Gnotuk maars*, xenoliths, petr. of sub-continental crust-mantle transition, 84M/3385; *New Zealand, Whitcombe* and *Hokitika Rivers*, lithology, field relations, structure, 84M/3389; *Egypt, St John's Island*, emplacement in continental margin fracture zones, implications from new geophys. model, 84M/3586; *Nigeria, Wamba Plateau State*, pyroxenite and hornblendite in migmatite complex, anals., 84M/1133; *Canada, Quebec, Renzy Lake*, amphiboles from, 84M/0788; *USA, Alaska, Adak Island*, inclusions, crystallization history, implications, 84M/3367; *Montana, Stillwater complex*, J-M Pt/Pd reef, origin by double-diffusive convective magma mixing, implications, 84M/3395; petr., petrogenesis, 84M/4398; *Brazil, Goias, Crixas greenstone belt*, lava flows, 84M/2062; *circum-Pacific belt*, genesis in ophiolite series, 84M/4440; *Pacific Ocean, Garret transform fault, 13°30'S*, igneous petr., 84M/2064; *Loihi Seamount*, geobarometry, 84M/3436
—, xenoliths *v.* xenoliths
Ultrapotassic rocks, *Italy, north western Alps*, Oligocene volcanic, petrogenesis, 84M/4106; *south east Spain*, geochem., 84M/2878
Umber, *Cyprus*, Cretaceous deposits, anals., comparison with Pacific pelagic clay, 84M/2078
Umbite, *USSR, Khibina massif, Vuonnemiok River*, new mineral, props., 84M/1942
Unconformities, *England* and *Iraq, Western Desert*, concealed, effects of epidiagenesi

Unconformities (*contd.*)
on reservoir characteristics of rocks beneath, 84M/4454
UNION OF SOVIET SOCIALIST REPUBLICS, isomorphous substitutions in allanite, 84M/0771; new minerals reported in from 1976-1981, references, 84M/0899; necessity for standard-sample mineralogical service, 84M/1185; franckeite, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216; mineral deposits, annotated bibliog., (book), 84M/3692; fizelyite, first USSR occurrence, 84M/4265; anhydrite, differences between hypogene and sedimentary, 84M/4269; *eastern*, native Ag from volcanogenic hydrothermal deposit, micromorphology, internal struct. index features, 84M/0231; *north east*, Pt-group mins. in ophiolitic dunite-peridotites, paragenesis, 84M/0818; *southern*, C from mud-volcano gases, isotopic distrib., relation to origin, 84M/2899; *European*, Late Precambrian geochron., 84M/0020; Cs-biotite from microcline-albite pegmatites, props., potential Cs source, 84M/1852; *Soviet Far East*, phosphorites, distrib. patterns, 84M/0305; *Aktobinskaya volcanic structure*, garnet from dacite-porphyries, genesis, 84M/0760; *Great Kiev*, gahnite from schists, 84M/3200; *Nikitovka* and *Drushkovka-Konstantinovka orefields* and *N. Donbass region*, hydrothermal baryte in Hg regions, 84M/3217; *Primor'e*, *Khankai massif*, retrogressive stage of metamorphism in, 84M/1132; *Smirnovskoe deposit*, cylindrite, non-stoichiometry and crystallochem. peculiarities, microprobe anals., 84M/3216; *Tamvatney ore cluster*, igneous activity, relationship to W mineralization in listvenite, use of geophys. data, 84M/1689; *Transcarpathia*, *Beregovo deposit*, baryte, min., morph., anals., 84M/0862; *Urals*, Pt-group mins. in dunite-pyroxenite-gabbro rocks, paragenesis, 84M/0818; rhodplumsite, new mineral, 84M/0892; weathered emerald-bearing mantle, presence of kaolin, metahalloysite, implications, 84M/1342; sulphide inclusions in diamonds, characteristics of paragenesis, 84M/3189; *southern Urals*, *west side*, alkali gabbroic rocks and K-rich analogues, 84M/4374; *Urals*, *Akhtenskoe deposit*, natural analogue of synthetic ε-MnO_2, first occurrence, 84M/3255; *Uzel'ga ore field*, massive sulphide lodes, position in rock cross-sections, 84M/0266; volcanic host rocks of sulphide deposits, cyclicity of, 84M/3881; *Polar Urals*, *Nerkaysuky complex*, eclogites, min., 84M/3540; *Voikar-Syninsky ophiolite*, Pt group elements, distrib., geochem., 84M/1688; *Voronezh region*, *Nizhnemamansk massif*, zonation in Cr-spinels, 84M/0830
—, ARMENIYA SSR, *Lesser Caucasus*, *Osinovye Somkhetsk Ridge*, crystal differentiation in spherulitic lavas, basalt flows, 84M/2022
—, KAZAKH SSR, *east Kazakhstan*, lithiotantite, new mineral, props., 84M/1934; *north Kazakhstan*, 'Dnestrovsk' type diamonds in placers, discovery, 84M/3188; *Akchatau deposit*, thermobarogeochem. study, 84M/2597; *Aktogai Cu deposit*, porphyry deposit, regional position, geol., 84M/0286; *Bayan deposit*, stratiform scheelite mineralization, 84M/0272; *Karatan Range*, ferrian montgomeryite, occurrence, props., 84M/1916; *Sarykul-Boldy* and *Pstan*, chrysoprase and praseopal, colour, spectroscopic and colorimetric studies, 84M/4048; *Zlatogorskaya massif*, pokrovskite, new mineral, 84M/4286
—, TADZHIK SSR, *south east Pamirs*, fluorite as metallogenic Sn ore indicator, 84M/0533; *south west Pamirs*, prismatic eremeevite crystals, props., genesis, 84M/0843; *Karategin Range* and *south western Pamirs*, min. equilibria in high-*T* metapelites, 84M/3542
—, UKRAINIAN SSR, magnesian metasomatism in early carbonatites, 84M/1111; *Ukrainian Shield*, *Ros* and *Teterev Rivers* and *Chernigovo complex*, coexisting biotite, amphiboles, relationship between Fe content, H-isotope compn. in, 84M/0522; *Boltysh Crater*, shocked quartz, new planar element orientations in, 84M/0743; *Korosten' massif*, Ti ores, min. peculiarities, 84M/1491; *Rudnya Ososhnya*, quartz-porphyry, formation conditions, 84M/0978; *Ukraine*, *Il'inets astrobleme*, albitization of maskelynite in shock-metamorphosed rocks, 84M/1817; *Krivoi Rog region*, magnetite in ferruginous quartzites, morphological peculiarities, 84M/3198; *Krivoy Rog*, *Ternovka astrobleme*, high-*P* silica phases in, 84M/4208; *Krivoi Rog basin* and *Kovdor deposit*, tetraferriphlogopite, -biotite, cryst. structs, 84M/0170; *Korostyshev* and *Novograd-Volyn'*, inclusions in quartz from undifferentiated pegmatites, 84M/3880; *Middle Bug region*, pyrope, pyrope-almandine, from sedimentary deposits, opt., spect., colorimetric parameters, 84M/0763; *Nagol'nyi Ridge*, *Bobrikovsky deposit*, anthraxolites from polymetallic lodes, genetic significance, 84M/2571; *Novopoltavskiy pluton*, graphite in carbonatite veins, 84M/0817; *central Pripyat Swell*, garnets from deep-seated associations, min., 84M/0762; *Sea of Azov area*, *Chernigovo carbonatite complex*, amphiboles, pyroxenes, peculiarities of chem. compn., crystal morphology, 84M/1846; *Chernigov zone*, coexisting olivine, magnetite in carbonatites, 84M/3362; *Volyn' region*, *Shatsk Lakes*, topaz from littoral sands, origin, 84M/1830
—, UZBECK SSR, *Uzbekistan*, *Kara-Chagyr*, asbolan (wad), structurally disordered with tetrahedrally coordinated Mn, 84M/3836
—, RUSSIAN SFSR, *Baikal-Aldan belt*, potassic alkaline magmatism, 84M/0980; *north east Siberian platform*, kimberlite magmatism, diamond occurrences, 84M/0981; *Siberia*, *Techukhe*, ilvaite polymorphism, X-ray study, 84M/1364; *Tyumen'*, *Omsk*, *Novosibirsk* and *Tomsk dists.*, bog-phosphates (vivianites), geol., reserves, 84M/0304; BURYAT ASSR, *Solongo deposit*, clinokurchatovite, new structural modification of kurchatovite, data, 84M/3232; *Transbaikal*, granitoid magma generation, participation of mantle fluids, evidence from gas anal., 84M/1662; *Transbaikal*, *Bartoy River*, unusual exsolution textures, phase transition sequence in K-Na feldspar, 84M/4240; *Transbaikal*, *Dzhida orefield* W mineralization, genetic features, 84M/0269; KABARDINO-BALKAR ASSR, *Caucasus*, *Tyrnyauz*, granitoid zoning, indicator of erosion depth, 84M/3363; KARELIAN ASSR, *Lake Onega*, solidified melt inclusions in quartz from regenerated granite, 84M/3361; *Onezskii*, chromdravite, new tourmaline mineral, 84M/0881; *Vozhminskii massif*, vein mineralization, 84M/3221; KOMI ASSR, *central Timan*, kimberlites, brief min., petr. characteristics, 84M/2900; TUVINSKAYA ASSR, *Altai-Sayan folded region*, pyrite from Au ore, radiogeochem. characteristics, 84M/0525; chrome-chlorites (kämmererites) from ultramafic rocks, new data, 84M/3165; *south east Tuva*, Precambrian iron deposits, metamorphism, 84M/3541; *Khadyn Fe deposit*, Fe-rich Mn silicates, opt., XRD, anals., 84M/4222; *Sangilen*, *Ular granitoid massif*, andalusite, sillimanite formation in contact aureole, 84M/1829; YAKUT ASSR, ilmenite from kimberlites, compn.-structure-props., dependences, min. significance, 84M/1873; kimberlites, U/Pb zircon age, new data, 84M/2348; garnets from kimberlites, min. inclusions in, 84M/3365; *Aldan Shield*, amphiboles from peridotite massifs, 84M/0789; Pt-group minerals in alkaline ultrabasic rocks, paragenesis, 84M/0818; *Aldan Shield*, *Chara-Tokka region*, *Tarynnakh quartzite*, holmquistite, opt., chem., 84M/0790; *Seligdar deposit*, *RE* mineralization in apatite ores, 84M/0531; apatite crystals, orientation, peculiarities of formation, 84M/0875; apatite-forsterite-carbonate rocks, min., features of genesis, 84M/3504; *Davan Spring*, davanite, new mineral, 84M/4283; *Malaya Botuoba* [*Botuobuya*] *region*, diopside-picroilmenite intergrowths from diatremes, 84M/3505; *Malo-Botuoba region*, ilmenite grains from kimberlite pipes, thermo-electromotive force, measurement, 84M/3581; *Udachnaya pipe*, kimberlite rocks, min., petr., 84M/3364; *Udachnaya West pipe*, abiogenic hydrocarbon synthesis in kimberlite pipes, C-isotope distrib. evidence, 84M/0510; *Udachnaya* and *Mir pipes*, djerfisherite in sulphide inclusions in diamond, 84M/4263; *Udachnaya*, *Mir* and *Aikhal pipes*, diamonds, sulphide inclusions in, characteristics of paragenesis, 84M/3189; *Udachnaya* and *Sytykan pipes*, 'Dnestrovsk' type diamonds in eclogite xenoliths, discovery, 84M/3188; *Yana-Indigirka region*, *D'yakhtardakhskoe deposit*, unusual Fe-sulphate in cryogenic oxidation zone, data, 84M/0864; ALTAYSKIY KRAY, *Gornyy Altai*, S isotope distrib. in atmospheric/surface water and plants, 84M/4069; Cu-Bi-Co-W mineralization, 84M/0267; *Gornyi Altai*, *Chagan-Uzun Hg deposit*, geol. features of deep horizons, min. zonations, 84M/0285; *Rudnyi Altai*, *Korbalikha ore deposit*, massive-sulphide-polymetallic deposit, geol., formation conditions, 84M/0287; *Orlovskoye-Openyshevskoye ore field*, silicic volcanic rocks, genesis, quartz inclusion study, 84M/4375; KHABAROVSK KRAY, *Bol'shoi Anyui River*, natural Na-leucite, transformation to analcite, 84M/

UNION OF SOVIET SOCIALIST REPUBLICS, RUSSIAN SFSR (*contd.*)
0809; *Bol'shoi Anyui River basin, Topolevka River, Bilibino*, meteorite, anal., min., 84M/0751; *Dzhugdzhur Range*, apatite-ilmenite-titanomagnetite ores and anorthosites, gabbroids, gabbro-syenites, genetic connection, 84M/0982; *Okhotsk massif*, min. compn. of metamorphic rocks, peculiarities, 84M/4492; *east Sayan*, magnesian metasomatism in early carbonatites, 84M/1111; ultramafic alkalic, carbonatite plutons, K/Ar age, new data, 84M/2347; *E. Sikhote Alin belt, Lower Amur region*, Pb-bearing montanite, occurrence, props., 84M/4259; KRASNOYARSKI KRAY, *Noril'sk deposits*, sulphates assoc. with sulphides, *T* conditions for formation, 84M/0271; mobility series of elements in intrusions, comparison of theoretical, empirical, 84M/0570; clinopyroxenes from volcanic traps, microprobe anals., 84M/0783; Cu-Ni-sulphide deposits, comparison with Australian, 84M/2572; Cu-Ni-sulphide deposits, structure, compn. comparison with Western Australian, 84M/3868; layered metalliferous intrusives, mechanism of formation, 84M/4372; olivine from layered mafic/ultramafic intrusions, primary inclusions in, 84M/4373; *Noril'sk, Oktyabr'sk deposit*, cabriite, new mineral, props., 84M/1926; CHELYABINSKAYA OBKUST', *Lake B. Tatkul*, ushkovite, new mineral, 84M/0895; CHITINSKAYA OBLAST', *Transbaikal, Kalar anorthosite*, Fe-Ti mineralization, 84M/0270; *Kalar Massif*, pyroxenes of, 84M/3141; KAMCHATSKAYA OBLAST', *Kamchatka*, thermal fields gas, steam discharges, chromatographic anal., 84M/1801; *Avacha volcano*, exotic lava (avachite) from, 84M/4377; *Bezymyanny volcano*, shcherbinaite, crystal chem., 84M/3202; *Kamchatka River area*, negative correlation of volcanic activity and surface runoff, 84M/4410; *Koryat-Kamchatska fold region*, ferronickelplatinum, new mineral, props., 84M/1928; *Koryak Mtns., Maynits tectonic zone*, ultramafic rocks, genesis, 84M/2023; *Kurilo-Kamchatka arc*, basic/ultrabasic rocks in abyssal fracture zones, structural transformations, 84M/3366; *Kurile-Kamchatka volcanic field, Tolbachin eruption*, tolbachite, new mineral, props., 84M/1941; KEMEROVSKAYA OBLAST', *Kuznetsk Alatau*, layered phosphorites, palaeostruct. control in distrib., 84M/0306; *Yenisey Ridge, Lower Angara block*, new type of Riphaean ore-controlling structure, 84M/1492; *Angara-Tungus prov., Lower Tunguska region*, magnetite mineralization, genesis, 84M/0268; MAGADAN OBLAST', *Seimchan River, Kan-'onsk deposit*, malayaite, new data, 84M/0759; MURMANSKAYA OBLAST', *Kovdor pluton*, nepheline varieties, ident. from intensity of light from second optical harmonic, 84M/3577; *Kola Peninsula*, Al-Ta phases in granitic pegmatites, 84M/0841; Zn-bearing staurolite from micaceous pegmatites, opt., morph., XRD, anal., 84M/1831; hingganite-(Yb), new mineral, props., 84M/1931; tantite, new mineral, props., 84M/1940; keivyite, new mineral, data, 84M/3241; vyuntspakhkite, new mineral, data, 84M/3254; hingganite-(Yb), crystal structure, 84M/3794; *south west*, dyke intrusions, new data, 84M/3360; magnesian metasomatism in early carbonatites, 84M/1111; *Mt Alluaiv*, sobolevite, new mineral, props., 84M/1939; *Mt Alluaiv*, makatite, first USSR finding, props., 84M/4247; *Khibina massif*, lithosite, new mineral, 84M/0886; *Khibina massif, Mt Restinyon*, barentsite, new mineral, props., 84M/1925; *Khibina massif, Vuonnemiok River*, kostylevite, new mineral, props., 84M/1933; *Vuonnemiok River* and *Mt. Eveslogehorr*, umbite and paraumbite, new minerals, props., 84M/1942; *Khibiny pluton*, Fe-eitelite, new variety, props., 84M/4276; *Kolvits Massif*, pyroxenes of, 84M/3141; *Lovozero massif*, terskite, new mineral, 84M/0894; *Lun'ok River*, lun'okite, new Mn analogue of overite, 84M/0887; *Polmos-Poros Belt*, komatiites, petr., 84M/0569; *West Keivy*, $1\frac{1}{8}''$ plumbomicrolite octahedron, new find, 84M/4570; *Mt Yukspor* and *Kuniok River*, nefedovite, new mineral, props., 84M/1938; PERMSKAYA OBLAST', *Krasnovishersk region, Severnyi Kolchim*, meteorite, min., petr., chem. compn., 84M/0750; ROSTOVSKAYA OBLAST', *Gornaya Shoriya*, stromatolitic phosphorites, geol., lithology, 84M/0307; SVERDLOVSKAYA OBLAST', *Vilyuy syneclise*, montmorillonite of volcanic origin, props., 84M/0111; KOMANDOR ISLANDS, geol., new data, 84M/2024
—, KURILE ISLANDS, *Kunashir Island, Mendeleyev Volcano*, chem. compn. of thermal waters, dependence upon seismic activity, 84M/4164
UNITED ARAB EMIRATES, *Madhab, Murbah* and *Wadi Ham*, ground geophys. prospecting, notes on Cu exploration, 84M/3041
UNITED KINGDOM, mineral statistics 1982; 84M/0208; applications of transient electromagnetic prospecting, 84M/1412; mineral statistics for 1983, (book), 84M/2459; Upper Permian mineralization by evaporite bacterial reduction, isotopic evidence, 84M/2835; *Rostherne Mere*, lacustrine sediment, hydroxyacid content, use as geochem. indicator, 84M/0698
USA, Precambrian kerogens, characterization by anal. pyrolysis, 84M/0681; future of non-fuel minerals in economy, 84M/1256; *east coast*, I remineralization in terrigenous near-shore sediments, rates, 84M/2981; *eastern* and *midwestern*, extractable metals in settling pond sediments, prediction, 84M/1516; *north western*, metal occurrence and terraine attributes, correlation, 84M/0217; *north*, playa lakes, sedimentology, 84M/4467; *western*, min. deposits, in accreted terrains and cratonal rocks, distrib., 84M/0216; ultrapotassic magmatism, relationship to Yellowstone plume, 84M/0590; topaz rhyolites, petrogenesis, 84M/2047; Cainozoic volcanic rocks, isotope geochem., evidence for mantle heterogeneity, 84M/2947; potentially active volcanic lineaments and loci, 84M/3403; field meeting 1981, 1982, itinerary reports, 84M/4340; *southern Adirondack Mtns.*, ribbon lineation, origin, 84M/4338; *Appalachian Basin*, Devonian shales, clay min., 84M/3769; *Appalachian Mtns., central*, metamorphic features in massive sulphides, 84M/0849; *central* and *southern*, regional metamorphism, ductile deformation, ages of, 84M/1220; *Basin & Range Province*, granitoid rocks, anal. data, 84M/4129; *southern Blue Ridge province*, metamorphic volatile equilibria, 84M/3563; *Cape Lookout Bight*, ^{210}Pb, ^{137}Cs sediment geochron., 84M/2984; *Cincinnati Arch*, Ordovician K-bentonites, chem. characteristics, origin, discussion, 84M/1328; reply 84M/1329; *Colorado Plateau*, extraction of V, U from low-mill-grade ores, 84M/0232; *Columbia Plateau, Chief Joseph dyke swarm*, chem., min. variations in 4 dykes, 84M/1013; *Columbia Plateau* and *north western great basin*, magma compn. of Cainozoic basalts, tectonic influence, 84M/3401; *Columbia River*, volcanism, mantle heterogeneity or crustal contamination, comment on previous paper, 84M/0589; *Columbia River basalt area*, Imnaha basalt, geol., petr., anals., 84M/4399; *Delaware Bay*, salt marshes, geochem., sedimentary ion diffusion, sulphate reduction, pyritization, 84M/2982; *Green River oil shales*, hydroxy-acid content, geochem. indicator, 84M/0698; *Green River Formation*, ammonium-nitrogen in oil shale, 84M/3049; *Lake Superior region*, Precambrian Fe-formations, origin, 84M/0220; *Mesabi Range western*, min., liberation characteristics, 84M/2560; *Michigan Basin*, comparison of crude oils, comment on previous paper, 84M/0695; reply, 84M/0696; more comment, 84M/0697; *Narragansett Bay*, coastal mobility of natural Th, Pb, Po and fallout Pu, Am, Cs radionuclides, 84M/0321; *Narragansett Bay estuary*, C_{25} and C_{30} biogenic alkenes in sediments, geochem., 84M/0691; *Rio Grande rift*, example of graben controlled by wrench faulting, 84M/1188; *Winyah Bay* and *Delaware Bay*, ^{224,226,228}Ra in, 84M/2631; *Yellowstone Nat'l. Park*, explosive silicic volcanic system, crustal structure and evolution, 84M/3406
—, ALASKA, Precambrian U and Au-bearing quartz-pebble conglomerates, genesis, 84M/0261; Eu-rich monazite in alluvial concentrates, 84M/3222; cemented horizon in subarctic sand dunes, 84M/4465; *east central*, sillimanite-gneiss dome in Yukon terrain, 84M/3556; *Alaska-Aleutian Range batholith*, Jurassic plutonic rocks, chem. variation, polarity, 84M/2037; *Aleutian Islands*, Hf-Nd-Sr isotopes, incompatible element abundances in island arcs, implications, 84M/4122; igneous activity, geochron., geol. data, 84M/4439; *Adak Island*, ultramafic/mafic inclusions, crystallization history, implications, 84M/3367; *Caribou Mtn.* and *lower Kanuti River areas*, podiform chromite occurrences, reconnaissance, 84M/0274; beneficiation, 84M/0275; *Edgecumbe volcanic field*, crustal material assimilation by basaltic magma, Sr-isotope, tr. element data, 84M/2918; *Fairweather Range, La Perouse gabbro*, structure, petr., 84M/2038; *Prince of Wales Island, Bokan Mtn.*, iimoriite, new

USA, ALASKA (*contd.*)
occurrence, new data, 84M/4213; *Seward Peninsula*, Sn-granites, geol., 84M/1006; regional progressive high-*P* metamorphism, 84M/4508; *Togiak basalt*, new Quaternary formation, 84M/1007
—, ARIZONA, roadside geol. (book), 84M/0088; $\delta^{13}C$ in pinyon pine leaf cellulose, possible climatic response, 84M/3059; index to Min. Record 1970-1983, 84M/4612; *Ajo, New Cornelia mine*, minerals, paragenesis, 84M/4608; *Bisbee, Campbell orebody*, henryite, new mineral, props., 84M/1930; *Camp Verde*, evaporites, mineralogy, 84M/2322; *Castaneda Hills*, bimodal volcanism, origin, 84M/1014; *Cochise Co., Hilltop mine*, mineralogy, 84M/2328; *Gleeson, Defiance-Silver Bill mines*, cuprian fraipontite with sauconite, occurrence, props., 84M/1859; *Silver Bill mine*, mineralogy, 84M/2329; *Graham Mtns., C-thon prospect*, andradite, new find, 84M/4571; *Helvetia, Safford* and *Silver Bell*, remote sensing for porphyry Cu deposits, 84M/0277; *Horseshoe Dam*, zeolites and assoc. minerals, 84M/2326; *Magma mine*, mineralogy, 84M/2321; *Mohave Cty., Oatman mining dist.*, alteration mineralogy, use of high-resolution IR spectroradiometer data in mapping, 84M/0239; *Nugget Fraction mine*, plancheite, new find, 84M/4570; *Old Yuma mine*, mineralogy, 84M/2324; *Pinal Co., Malpais Hill*, minerals, 84M/2325; *Ray mine*, minerals, list, descriptions, 84M/4610; *San Carlos*, C surface concentration profile in olivine crystals, $^{12}C(d,p)^{13}C$ and photo-electron spectroscopical studies, 84M/0519; megacryst ilmenite from types A, B, spinel lherzolite, intrinsic f_{O_2}, upper mantle implications, 84M/4383; *Santa Cruz Co., Glove mine*, minerals, list., 84M/4609; *Santa Cruz Co., J. C. Holmes claim*, vanadinite, hollow crystals, new find, 84M/4570; *Tiger*, black dioptase, occurrence, cause, 84M/4611; *Tucson basin*, soil CO_2, stable-isotope compn., 84M/1738; *Vekol mine*, ferroan dolomite crystals, anal., 84M/2323; *Yavapai Co., Anderson mine.*, U deposit, geol., 84M/0292; *Kirkland Junction*, harmotome in basaltic lacustrine sandstone, 84M/0813; *Mistake mine*, ramsdellite, occurrence, props., 84M/4251; *Yuma Co., New Water Mtns.*, calciovolborthite, occurrence, 84M/2327
—, ARKANSAS, *Little Rock, Big Rock quarry*, eggletonite, new mineral, props., 84M/1927; *Wilson Springs* (*Potash Sulfur Springs*) straczekite, new mineral, data, 84M/3251
—, CALIFORNIA, ^{10}Be concentration, long-term fate of particle-reactive nuclides in soil profiles, 84M/1759; granitic pegmatites, light stable isotope systematics, 84M/2943; garnet-hornblende geothermometer, calibration, testing, application, 84M/4520; *east-central* and *southern*, Upper Pliocene, Pleistocene ash layers, chem. anals., correlations, ages, 84M/4418; *north*, lateritic Ni ores, characterization by electron-optical, X-ray methods, 84M/2561; *Coso volcanic field*, magmatic inclusions in rhyolites, contaminated basalts, compositional zonation, 84M/4400; crustal interaction, compositional zonation in magma source regions, Pb, Sr isotope evidence, 84M/4401; *Coyote Peak*, taeniolite, occurrence, props., 84M/1853; *Culbertson Lake allochthon*, 4 phases of deformation/extension, evidence, 84M/3322; *Darwin*, mines and minerals, 84M/4607; *Del Puerto ophiolite*, submarine hydrothermal metamorphism, 84M/4441; *Diablo Range*, santaclaraite, new mineral, 84M/4287; *Diablo Range, Franciscan complex*, high-grade blueschist exotic block, metamorphic history, 84M/3561; *Fresno Co., Sierra National Forest*, Courtright intrusive zone, field guide, 84M/4341; *Great Valley sequence*, burial-metamorphosed volcanogenic sediments, isotope geochem., 84M/2988; *Inyo Co., Saline Valley*, epidote, occurrence, description, 84M/2316; *Klamath Mtns., Wooley Creek batholith*, petr., upward zonation, 84M/2048; *Long Valley caldera area*, dyke intrusion earthquake mechanisms, evidence, 84M/3323; *Lost Burro formation*, burial dolomitization, significance of late diagenetic dolomitization, 84M/1104; *Medicine Lake Highland volcano*, dykes beneath silicic domes, structural evidence, 84M/1042; magma mixing in calc-alkaline series lavas, effects of melt density, 84M/3397; *south-central Mother Lode*, mariposite-bearing rocks, isotopic studies, 84M/0547; *Mountain Pass mine*, sahamalite, crystal structure, 84M/2545; *Palos Verdes Peninsula*, sand on pocket beaches, sources, 84M/4471; *eastern Peninsular Ranges, RE* element distrib. in granodiorite, petrogenetic implications, 84M/0593; *eastern Peninsular Ranges, Borrego Springs*, plutonic rocks, petr., 84M/3562; *Salton Sea, Elmore no. 1 borehole*, allogenic layer silicate minerals in, 84M/3168; *San Gabriel Mtns., Vincent thrust*, movement on, relationship to Pelona schist deformation, metamorphism, 84M/4519; *San Joaquin basin*, detrital microcline, $^{40}Ar/^{39}Ar$ spectrum anal., use in detn. of sedimentary basin thermal evolution, 84M/1226; *Shasta*, Pb from palaeo island arc, isotopic compn., 84M/2948; *central Sierra Nevada batholith*, granitoid rocks and constituent mins., compn. variations, element abundancies, 84M/0591; magma mixing in granitic rocks, 84M/3396; *Merced Peak quadrangle*, plutonic, metavolcanic and volcanic rocks, anal. data, 84M/0592
—, COLORADO, salt movement in fine-textures processed oil shale under semi-arid conditions, 84M/1524; *Canon City*, botryoidal fluorite, occurrence, description, 84M/2316; *Denver area*, goyazite in Cretaceous kaolinitic altered tuffs, 84M/4282; *El Paso Co., St Peter's Dome*, Zn-, Y-bearing senaite, anals., comparison with Brazilian, 84M/1882; *Front Range*, migmatites, local mass balance in, quantitative approach, 84M/2246; open-, closed-system migmatites, 84M/2278; mass balance, mass transfer in migmatites, 84M/3560; *Mountain Monarch mine*, rhodochrosite crystals, description, 84M/2316; *Ouray*, dickite, structure refinement, 84M/3734; *Piceance Creek basin*, adsorption of Hg by soils, 84M/0316; *Raton basin*, tr. element patterns at non-marine Cretaceous-Tertiary boundary, 84M/4207; *Sherman granite*, zircon inclusions in rock-forming minerals, U-Th-Pb systematics, armouring against isotopic loss, 84M/1663; *Stony Mtn. intrusive complex*, multiple hydrothermal circulation systems, cooling history, O-isotope depletion patterns, 84M/1736; *Western Pass area*, use of Skylab photography in min. exploration, 84M/0240
—, CONNECTICUT, *north central*, Glastonbury gneiss and mantling rocks, geochem., petrogenesis, isotopic age, 84M/4516; *north west*, staurolite, hydroxyl content, 84M/1832; *Honey Hill fault zone*, Late Palaeozoic mylonization, textural, Rb/Sr evidence for, 84M/4517
—, FLORIDA, *south*, artificially compacted lime mud cores, mechanical, chem. compaction, 84M/1105; *Everglades*, S diagenesis in peat, pyrite origin in coal, 84M/2983
—, GEORGIA, kaolinite, structure defects in dehydrated, 84M/3736; *southern Appalachian piedmont*, late orogenic granites, gneisses, thermomagnetic characteristics, 84M/3588
—, HAWAII, volcanic rocks, He isotope variations, 84M/3438; basalts and xenoliths, He isotopes, mantle volatiles in, 84M/3439; epistilbite, occurrence, brief description, 84M/2315; *Haleakala volcano*, tholeiite and alkalic basalt, origin, 84M/2912; *Kauai*, highly oxidized ferrian alkali gabbro and mantle xenoliths, 84M/4415; *Kilauea*, H_2O, CO_2, S concentrations, sources, losses in basalt, 84M/0580; differentiated tholeiitic basalts, distrib. on lower east rift zone, 84M/1039; explosive eruptions, 84M/3408; eruption Jan. 1983, gas compn., 84M/4414; *Kilauea, Halemaumau*, lava lake oscillations, magma reservoir beneath, 84M/1040; *Kohala volcano*, origin of basalt, transition from tholeiitic to alkalic volcanism, 84M/2911; *Oahu*, basalts, isotope evidence for multiple sources, 84M/2914; *Oahu, Moiliili*, olivine-melilite-nephelinite, low-*P* fractionation of undersaturated alkaline ultrabasic magma, 84M/2061; *Salt Lake Crater*, anhydrous peridotite, melting at high-*P*, relevance to basalt magma genesis, 84M/2718
—, IDAHO, *north eastern*, sandstone (Revett) type Cu-Ag occurrences, genesis, 84M/1480; *Bunker Hill mine*, pyromorphite, occurrence, description, 84M/2316; *Idaho batholith*, geol. along north west border zone, 84M/4518; *Owyhee Co., De Lamar mine*, mandarinoite, opt., chem., X-ray, 84M/0839; *Yellowstone volcanic field*, magmatic evolution, bearing on understanding large-volume explosive volcanism, 84M/3405
—, INDIANA, *Salem*, large celestite crystals in geodes, 84M/1904
—, ILLINOIS, *south west*, underclay beneath coal, origin, evidence from vertical min. and chem. variations, 84M/1334; *Denton mine*, baryte, fluorite, occurrence, description, 84M/2316; *St Peter* and *Mt. Simon*, sandstone porosity, cement, regional variations, 84M/4469
, IOWA, *Keokuk*, kaolinite, structure refinement, 84M/3734

USA (*contd.*)
—, KENTUCKY, *east*, min., chem. of Lower Pennsylvanian fauna, diagenetic, palaeoenvironmental anal., 84M/0611
—, LOUISIANA, *Iberville Parish*, parahilgardite, struct., 84M/0203
—, MAINE, mineral occurrences, brief descriptions, 84M/2315; *central* and *eastern*, microplates in Palaeozoic, granitic plutonism as indicator, 84M/2944; *south central*, reaction process variable, applications in metamorphic petrology, 84M/2277; biotite altered to chlorite, TEM study, comparison with petr. observations, 84M/3160; *west*, staurolite, hydroxyl content, 84M/1832; *Augusta*, alteration minerals in synmetamorphic granites, correlation of bimodal ^{18}O values, 84M/4157; *Newry*, *Nevel* (*Twin Tunnels*) *pegmatite*, gainesite, new phosphate mineral, data, 84M/3236; *Vassalboro formation*, regional metamorphism, 84M/1150
—, MASSACHUSETTS, *central*, Acadian migmatites in pelitic rocks, 84M/2244; *south central*, Glastonbury gneiss and mantling rocks, geochem., petrogenesis, isotopic age, 84M/4516; *west central*, weathering processes in sulphidic schist, mechanism, 84M/1521; *Buzzards Bay*, diagenesis, mobility of $^{239,240}Pu$, ^{137}Cs in nearshore sediments, lab. study, 84M/3019
—, MICHIGAN, Precambrian U and Au-bearing quartz-pebble conglomerates, genesis, 84M/0261; *Ontonagan*, *Houghton* and *Keweenaw Co's.*, Cu minerals, occurrences, descriptions, 84M/2317; *White Pine mine*, 1½″ chalcocite crystals, description, 84M/2316
—, MINNESOTA, botryoidal goethite, high-resolution TEM study, 84M/4257; *north east*, biotite from pelitic hornfelses, anal. of compn. variations, 84M/3156; *Deer Lake complex*, layered sills, sulphide min. and S-isotope geochem., 84M/1698; *Duluth complex*, *Dunka Road Cu-Ni deposit*, petr., chem., 84M/1507; *Mesabi iron range*, Proterozoic mafic dykes, geol., petr., 84M/1010
—, MISSOURI, high alumina clay types in clay deposit, physical arrangement, genesis implications, 84M/3762; *south east*, pecoraite replacing millerite, 84M/3170; *southern*, anal. of geophys./geochem. data, application of digital image processing, 84M/0242; *Bixby*, *Buick mine*, siegenite crystals, morphology, props., 84M/4264; *Iron County*, *Pilot Knob Fe deposits*, volcanic stratigraphy, 84M/1433
—, MONTANA, veszelyite, parisite occurrences, brief descriptions, 84M/2315; *east*, bentonite, Rb/Sr U/Pb dating, 84M/1221; *north central*, garnets in diatremes, key to kimberlite prospecting, 84M/4184; *north west*, sandstone (Revett) type Cu-Ag occurrences, genesis, 84M/1480; *Beartooth Mtns.*, Precambrian geol., (book), 84M/1260; Precambrian geol., 84M/2002; *south eastern Beartooth Mtns.*, Archaean rocks, geochem., Rb/Sr geochron., 84M/2005; *Beartooth Mtns.*, *Broadwater River area*, metasedimentary xenoliths in granitic gneisses, min., petr., 84M/2003; *Beartooth Mtns.*, *Long Lake area*, Archaean rocks, field, petr. relationships, 84M/2006; *Beartooth Mtns.*, *Quad Creek area*, granulite grade supracrustal assemblages, 84M/2010; *Beartooth Mtns.*, *Quad Creek* and *Hellroaring plateau*, Archaean rocks, geochem., 84M/2007; *Beartooth Mtns.*, *South Snowy block*, biotite granodiorite, prelim. zircon U/Pb dating, 84M/2004; *Butte* and *Dillon quadrangles*, definition of limonitic exposures on vegetated areas, use of Landsat data, 84M/0246; *Cotter Basin*, airborne biogeophys. test mapping for hidden min. deposits, 84M/0668; *Glacier Natl. Park*, sedimentary geol., stromatolites in Middle Proterozoic Belt supergroup, 84M/2226; stromatolites and assoc. facies in shallowing-upward cycles, 84M/4468; *Little Pipestone Creek*, use of opt., X-ray for detn. of detrital K-feldspar structural state, use in indicating provenance, 84M/1103; *Southern Madison Range*, pre-Betian geol., 84M/4514; *Philipsburg batholith*, min., petr., internal variation, evolution, 84M/2046; *Red Lodge dist.*, exsolution in metamorphosed chromite, 84M/1879; *Stillwater complex*, magma evolution, prelim. study using *RE* data for whole rocks, cumulate feldspars, 84M/2008; hornfels at base, systematic variations in, 84M/2009; J-M Pt/Pd reef, origin by double-diffusive convective magma mixing, implications, 84M/3395; Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite, 84M/4249; ultramafic series, petr., petrogenesis, 84M/4398; *Yellowstone volcanic field*, magmatic evolution, bearing on understanding large-volume explosive volcanism, 84M/3405
—, NEVADA, *south*, new type of décollment thrusting, 84M/3324; *Elko County*, *Toana Range*, coexisting biotite, muscovite from 2-mica granite, markedly discordant K/Ar ages, 84M/1222; *Lunar Crater volcanic field*, CO_2-CO fluid inclusions in composite xenolith, indication of upper mantle f_{O_2}, 84M/2945; *Pershing Co.*, *Big Mike sulphide deposit*, textural, stable isotope studies, 84M/3916; *northern Snake Range*, metamorphic monazite, U-Pb-Th ages, 84M/1223; *southern Snake Range*, zircon, U-Th-Pb ages, 84M/1224; granitic rocks, problems, 84M/1737; *Yerington dist.*, structural deformation, palaeomagnetic study, 84M/1165
—, NEW HAMPSHIRE, *Black Mountain*, staurolite, hydroxyl content, 84M/1832; *Government Pit*, mineral occurrences, description, 84M/2315; *Hillsboro quadrangle*, bedrock geol., metamorphism, 84M/1151; *Merrimack synclinorium*, *P*, *T*, metamorphic zonation of pelitic schists, 84M/1152; *Palermo mine*, phosphates, alphabetical descriptions, history of occurrence, 84M/3606
—, NEW JERSEY, *Bridgeville*, *Oxford Stone quarry*, ferroaxinite crystals, morph., anal., 84M/1836; ganophyllite, new chem. data, comparison with Swedish, Welsh, 84M/0796; zincian pennantite-Ia polymorph, occurrence, props., 84M/1854; pyrobelonite, XRD, anal., paragenesis, 84M/1889; minerals in Buckwheat dolomite, SEM study, 84M/2320; charlesite, new ettringite group mineral, data, 84M/3231; kittatinnyite, new mineral, data, 84M/3242; nelenite, new mineral, data, 84M/3244; *Franklin* and *Sterling Hill*, allactite, occurrence, anals., 84M/1886; new minerals, descriptions, 84M/4606; *Mullica Hill*, ferrostrunzite, new mineral, data, 84M/3234; *Sterling Hill*, wallkilldellite, new mineral, data, 84M/3242
—, NEW MEXICO, granitic pegmatites, light stable isotope systematics, 84M/2943; coexisting paragonite, quartz in sillimanitic rocks, 84M/4230; *Raton basin*, tr. element patterns at non-marine Cretaceous-Tertiary boundary, 84M/4207; *Raton-Clayton volcanic field*, mafic feldspathoidal lavas, petrogenesis, 84M/2949; *Santa Rita porphyry Cu deposit*, hydrothermal sericite, geochem., 84M/4229; *Taos volcanic field*, heterogeneous crystallization on basaltic textures, dynamic crystallization study, 84M/0349
—, NEW YORK, dolomitization, diagenesis in shallowing-upward formation, 84M/2225; *Adirondack Mountains*, mafic granulites, min. chem., 84M/0787; *Indian Lake quadrangle*, metamorphic fluids in deep crust, evidence, 84M/3559; *Marcy massif*, anorthosite, Sr, Nd isotope geochron., geol. hist., origin, 84M/2361; *Snowy Mtn dome*, anorthosites, origin and age, Nd-isotope re-evaluation, 84M/0048; *Willsboro mine*, anorthosite shallow emplacement, O-isotope evidence from wollastonites, 84M/2843; *Appalachian plateau*, foreland deformation, role of small scale detachment structures in regional thrusting, 84M/4470; *Essex Co.*, *Lead Hill* (*Chison Hill*) *mine*, undeformed graphite crystals, occurrence, description, 84M/2318; *St Lawrence Co.*, *Grenville Lowlands*, *Beaver Creek area*, mineralization, mining, min. resources, 84M/3866; *Ticonderoga*, *Trout Brook Valley*, bastnäsite crystals, data, 84M/2319; *Westport area*, reaction skarns between quartz and olivine-bearing rocks, 84M/1113; errata, 84M/1114
—, NORTH CAROLINA, *Southern Appalachian piedmont*, late orogenic granites, gneisses, thermomagnetic characteristics, 84M/3588; *Avery Co.*, *Cranberry deposit*, magnetite deposit, geol., 84M/2664; *Buncombe Cty.*, *Craggy Mtn. area*, min. resources, 84M/0299; *Bald Knob*, pennantite-Ia polymorph, occurrence, props., 84M/1854; Mn-humites, min., phase equilibria, 84M/3121; *Blue Ridge province*, compositional layering in Late Precambrian sediments, origin, significance, 84M/4342; *Chunky Gal Mtn. complex*, petr., 84M/1015; *Great Smoky Mtns.*, zoned metamorphic monazite porphyroblasts in Anakeesta formation, anals., 84M/4281; *Great Smoky Mtns.*, *Anakeesta formation*, kyanite-staurolite metamorphism in sulphidic schists, 84M/3564; *Murphy*, expandable layer silicates assoc. with hydrothermal talc deposits, 84M/0298; *Pilot Mtn.*, metal anomalies, remote detection, 84M/0673; *Roan Mtn.*, granulite-facies gneisses, age, *P-T* conditions during metamorphism, 84M/2363; *Watauga River*, *Cranberry* and *Crossing Knob gneisses*, Rb/Sr ages, 84M/2362
—, NORTH DAKOTA, *south west*, producing/non-producing zones in gas-bearing

USA, NORTH DAKOTA (*contd.*)
marine mudstones, geophys. differentiation, 84M/1327
—, OHIO, *north east*, till, interpretation of textural, min. anals., influence of local bedrock, 84M/2227; *Scioto Cty., Green Twp.*, neoformed Palaeozoic adularia, ident., age, 84M/0049
—, OKLAHOMA, *Ouachita Mtns.*, steranes in solid bitumen pyrolyzates, distrib., changes with crude oil biodegradation, 84M/0677; *Woodford Shale*, effects of thermal maturation on stable organic C-isotopes, hydrous pyrolysis detn., 84M/3060
—, OREGON, *south*, lateritic Ni ores, characterization by electron-optical, X-ray methods, 84M/2561; weddellite, occurrence, props., 84M/1921; *Chambers mine*, Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite, 84M/4249; *Coast Range*, gabbro sill, differentiation by crystallization-zone settling, 84M/1012; *Lake Albert*, clay minerals in alkaline, saline lake, 84M/1331; *Leone Lake*, sediments, reinterpretation as pyroclastic surge deposit, tectonic significance, 84M/4417
—, PENNSYLVANIA, surface coal mine reclamation, ecosystem development, natural succession, 84M/2622; *Fayette Co.*, magma-mixing in low velocity zone, kimberlite megacryst evidence, 84M/4397; kimberlite melt, mid-to late-stage evolution, evidence from phlogopites, oxides, 84M/4233
—, RHODE ISLAND, *Hopkinton*, sceptred amethyst crystals, description, 84M/2316
—, SOUTH CAROLINA, reversible ion-exchange fixation of ^{137}Cs, mobilization in reservoir sediments, 84M/0327; *South Appalachian piedmont*, late orogenic granites, gneisses, thermomagnetic characteristics, 84M/3588; *Haile mine*, geophys. methods as mapping tools in strata-bound Au deposit, 84M/4544
—, SOUTH DAKOTA, *Black Hills*, dedolomitization, process, rate, mass transfer and ^{14}C dating in carbonate aquifer, 84M/3017; *Tip Top mine*, red montgomeryite, occurrence, props., notes on kingsmountite, calcioferrite, 84M/1917; fransoletite, new phosphate mineral, data, 84M/3235; *Elk Creek*, golden baryte crystals, new find, 84M/4570
—, TENNESSEE, radiometric ages of rocks, 84M/2364; *Mascot–Jefferson City Zn dist.*, fluid mixing, fluid inclusion evidence, 84M/2585
—, TEXAS, *east*, weathering of lignite overburden, min. transformations during, 84M/1335; *Brazoria Co.*, Frio formation in geopressured wells, clay mineralogy, depositional hist., 84M/0129; *Christmas Mtns.*, metasomatism duration in gabbro contact halo, quasi steady-state model, 84M/1112; *Cotton Valley*, sandstone, diagenesis, influence on reservoir porosity, 84M/2228; *Delaware Basin*, isotope shifts in Late Permian strata, evidence from varves, 84M/2985; *Gulf coast*, nitrous oxide emissions from wetlands, 84M/4071; *Laguna Madre wind-tidal flat area*, brines, major element geochem., 84M/1790; *Llano*, vermiculite intercalated with aniline, structure, 84M/1320; *Queen City formation*, interlayered glauconites, K/Ar dating, 84M/0050; *Ray Point dist.*, origin of U dist., role of fluid mixing, fault-related sulphides, 84M/1699; *Terlingua, Mariposa mine*, comancheite, new mineral, 84M/0882; *Texas Panhandle*, complex polyhedral limpid dolomite crystals on halite, 84M/0871; *Trans-Pecos, Paisano volcano*, trachyte, quartz trachyte, peralkaline rhyolite suite, origin, 84M/1016
—, UTAH, CRIB file for metal/non-metal resource information, USGS computerized information bank, 84M/0276; *north west*, metamorphic muscovite from Precambrian quartzite, Miocene K/Ar age, 84M/1225; *Burgin mine*, supergene processes in Zn-Pb-Ag sulphides in carbonates, 84M/2558; *Marysvale*, assessment of hydrothermal alteration, use of multispectral scanner images, 84M/0244; *Marysvale volcanic field*, replacement and vein-type alunite deposits, origins, exploration significance, 84M/3929; *Notch Peak*, contact metamorphic aureole, limestone petr., 84M/1115; *Notch Peak granitic stack*, H-isotope variations in granitic rocks, vapour phase exsolutions as controlling factor, 84M/2946; *Roosevelt Hot Springs* and *Tintic porphyry Cu deposit*, hydrothermal sericite, geochem., 84M/4229; *Tooele Co., Gold Hill*, adamite, occurrence, description, 84M/2316
—, VERMONT, *Jamaica*, staurolite, hydroxyl content, 84M/1832; *Post Pond series*, intergrown wonesite, chlorite, talc, biotite, kaolinite, microstruct., 84M/0172; wonesite, exsolution, crystal chem., 84M/0793; *Taconic sequence*, and *Martinsburg formation*, sedimentation rates, 84M/3495
—, VIRGINIA, commercial caverns, names, locations, 84M/1200; clay material resources, 84M/1511; *Augusta, Bath, Highland* and *Rockbridge Counties*, high-silica resources 84M/1512; *Blue Ridge*, anorthosites, charnockites, granulites, Nd, Sr-isotope evidence for age, origin, 84M/3668; *Chesapeake Bay*, organic C, S in sediments, 84M/0610; *Culpepper basin area*, aeromagnetic contour map, 84M/1164; total-count aeroradiometric contour map, 84M/1658; *Farmville*, Farmville Lithia Springs Company, history, chem. data, 84M/1779; *Lovingston formation*, vein-type U environment, 84M/1697; *Mill Creek, Mountain Lake* and *Peters Mountain Wilderness area*, min. resources, 84M/1505; *Mineral*, application of remote sensing to search for sulphides, field results, 84M/0669; *Piney Branch complex*, mélanges, nature and origin, comment, 84M/4442; reply, 84M/4443; *Powhatan County, Herbb pegmatite*, wodginite, first US occurrence, 84M/1182; *Herbb no. 2 pegmatite*, large colourless gem-quality topaz in dump, discovery, 84M/1636; 3½″ cassiterite crystal, new find, 84M/4571; *Rockingham County, Brocks Gap area*, large quartz crystals, description, origin, 84M/1181; *Wise County*, Sr minerals, update, 84M/1513
—, WASHINGTON, polycyclic aromatic hydrocarbon phase associations in coastal sediment, 84M/0326; *north west*, soils from glacial-marine drift, min. transformations in, 84M/3776; *Chelan Co., Holden mine*, metamorphosed volcanogenic deposit, geol., 84M/1506; *Cougar Lakes–Mount Aix area*, min. resources, 84M/3867; *Freeman*, nontronite, structure defects in dehydrated, 84M/3736; *Glacier Peak*, potentially hazardous volcano, 84M/3948; *Holden* and *Lucerne quadrangles*, intrusive rocks, relation of depth zones, compn., textures, emplacement of plutons, 84M/3394; *Mount St Helens*, isotopic, chem. evolution, 84M/0588; explosive eruption 18 May 1980, chronology and character, 84M/3409; *North Cascades*, Shuskan greenschists, blueschists, geochem., 84M/0641; *Puget Sound*, forms, total Mn amounts in aqueous samples, quantitative ESR detns., 84M/0328; *Spirit Lake area*, airborne biogeophys. test mapping for hidden min. deposits, 84M/0668; *Umtanum basalt*, selenate-Se sorption, 84M/3971
—, WISCONSIN, *Eau Claire River complex*, metamorphosed Precambrian mafic intrusion, 84M/4515; *southwest, Marathon Co.*, Precambrian terrain, gravity, petrological study, 84M/3589
—, WYOMING, bentonite, Ca-Mg exchange in presence of adsorbed Na, 84M/3708; *Black Hills*, dedolomitization, process, rate, mass transfer and ^{14}C dating in carbonate aquifer, 84M/3017; *Cheto*, montmorillonite, formation, transformation, 84M/1282; *Converse Cty., S Powder River basin*, sandstone alteration related to roll-front U mineralization, mapping by airborne multispectral scanner, 84M/0241; *Jackson*, late Tertiary volcanic ash, weathering, importance of organic solutes, 84M/0623; *Sherman granite*, zircon inclusions in rock-forming minerals, U-Th-Pb systematics, armouring against isotopic loss, 84M/1663; *Upton*, sorption of Yb by montmorillonite, effect of *P*, 84M/1540; *Wind River Mtns., White Rock Heat*, brittle to ductile transition due to large strains, 84M/4338; *Yellowstone Natl. Park*, Cs in analcite, selective concentration during hydrothermal alteration, 84M/0523; *Yellowstone Natl. Park, Beartooth Mtns.*, Precambrian geol., 84M/2002; Precambrian geol., (book), 84M/1260; *Yellowstone volcanic field*, magmatic evolution, bearing on understanding large-volume explosive volcanism, 84M/3405
Upalite, *Zaïre, Kobokobo*, crystal structure, twinning, 84M/1402
Urancalcarite, *Zaïre, Shaba, Shinkolobwe*, new mineral, 84M/4290
Uraniferous bitumen *v.* Hydrocarbons, bitumen
Uraninite, *Belgium, Daverdisse*, micro-cubes in quartzite, quartz veins, 84M/1483; *India, Singhbhum shear zone*, in apatite-magnetite rocks, 84M/1469; *Australia, Queensland, Mount Hogan*, hydrothermal, 84M/2579; *Canada, Ontario, Shorbot Lake area*, in pegmatites, 84M/2936; *Saskatchewan, McClean deposits*, ore mineral, geol., 84M/3898
Uranium, sorption on amorphous ferric oxyhydroxide, 84M/0312; detn. in natural waters, fission track method for, 84M

Uranium (*contd.*)
0665; in Chinese Bureau of U Geology standard ore samples, anal. procedures, values, 84M/0727; substitution, inclusion in synthetic chlorapatite, 84M/1601; traces, anal. by fission track counting, use of ceramic semiconductors, 84M/2409; recovery, anal. methods assoc. with, 84M/2442; partitioning between whitlockite/liquid, lab. study, 84M/2661; microbial uptake, metabolism, implications for Precambrian ore deposits, 84M/2778; in granites, symposium papers, 84M/2921; sorption on clay minerals and surface coatings, opal, synthetic silica gel, 84M/3744; comparison with Ra sorption, 84M/3745; sorption by biotite, muscovite, phlogopite, 84M/3746; content in mid ocean ridge basalt glasses, K/U ratio in mantle, 84M/4095; *Norway, Sæteråsen*, geochem. exploration methods for, 84M/1807; *Svalbard, Janusfjellet formation*, distrib. in black shales, 84M/2964; *England, East Midlands* and *Wessex Basin*, dissolved in groundwater from Triassic sandstones, content, $^{234}U/^{238}U$ activity ratios, 84M/3009; *USSR, Altai-Sayan folded region*, content in pyrite from Au ore, 84M/0525; *France, Aveyron, Brousse-Broquies basin*, in albitite, descriptions, example, 84M/0223; *Belgium*, in Palaeozoic rocks, reconnaissance survey, 84M/1805; *Switzerland*, extraction from granite, 84M/0558; microdistrib., 84M/0559; *West Carpathians*, content in accessory apatite grains, petrogenetic aspects, 84M/0530; *Yugoslavia, Cer*, ratio of easily soluble U to total U in granitic pluton, statistical study, 84M/0560; *Himalayas*, concentrations in kyanite, 84M/0025; *south China*, potential in granitic intrusions, evaluation, application of fuzzy set method, 84M/1693; *Japan, Kitakami Mtns.*, in Cretaceous plutons, 84M/0997; *north west Africa*, content in Late Proterozoic volcanic rocks, 84M/2885; *South Africa, Kaapvaal craton*, recent mobilization in Archaean pyritic conglomerates, 84M/2783; *Canada, Baffin Island, Fury* and *Hecla Strait area*, in granites, 84M/2933; *British Columbia, Coryell batholith*, in alkaline intrusions, 84M/2925; *Guichon Creek*, behaviour during batholith evolution, 84M/2927; *North West Territories, Blachford Lake*, pluton petr., chem., 84M/2930; *Melville Penin.*, uraniferous granitic pluton, 84M/2934; *Nova Scotia, Pugwash Harbour*, U-rich reduction spheroids in sandstone, 84M/2980; *South Mtn. batholith*, geochem., distrib., genetic and exploration implications, 84M/2923; *Ontario, Superior prov.*, uraniferous granitoid rocks, 84M/2929; *USA, Colorado Plateau*, extraction from low-grade carnotite, 84M/0232; *Virginia, Culpeper basin* and *vicinity*, regional values, total-count aeroradiometric contour map, 84M/1658; *Barbados*, in Holocene/Pleistocene corals, 84M/0614; *Brazil, Bahia, Lagoa Real*, enrichment in Archaean crustal basement assoc. with overthrusting, 84M/2855; *Pacific Ocean, East Pacific Rise, 13°N*, in hydrothermal vent field high-*T* solns., 84M/4091
—, compounds, UO_2, thermal expansion data, 84M/4537
—, deposits, application of 'geostatistics' in mining, example, 84M/0222; in Precambrian quartz-pebble conglomerates, genesis, 84M/0261; granite-type and volcanite-type, genetic model, 84M/1428; hot water origin, castastrophe mathematical model for, 84M/2845; distrib., relationship with granitic plutons, 84M/2940; *Norway*, classification, 84M/0224; *Sweden, Arjeplog-Arvidsjaur-Sorsele U province*, mineralization, studies of selected occurrences, 84M/1415; *Billingen-Falbygden* and *Närke areas*, resources in Cambrian shales, 84M/1416; *Scotland, Tyndrum* and *Orkneys, Stromness*, deposits, 84M/0921; *France, Brittany, Vendée* and *eastern Massif Central*, hydrothermal, clay minerals in 84M/2488; *Vendée* and *Margeride*, hydrothermal, potassic alteration in, 84M/1686; *Limousin area* and *Margnac mines*, excursion details, 84M/1458; *France, Italy, Switzerland*, in Permian rocks, excursion details, maps, 84M/1457; *Switzerland, Graubünden, Affeier*, occurrences in Permocarboniferous strata, min., anals., 84M/0250; *Germany, north east Bavaria*, syngenetic/epigenetic, implications for from vein-, sedimentary-hosted carbonaceous matter and phosphorus, 84M/2856; *Müllenbach*, min., paragenesis, 84M/1485; alteration of Upper Carboniferous host rock during ore formation, 84M/2588; *Spain, Guadalajara, Mazarate*, U bearing/barren arkosic sandstones, diagenetic characteristics, possible differences, 84M/2586; *Spain, Salamanca Prov.*, excursion details, 84M/1458; *Portugal, Palheros de Tolosa Nisa* and *Tarabau*, excursion details, 84M/1458; *West Carpathians*, metallogenesis, 84M/0251; *India, Bihar, Singhbhum shear zone*, ore mineralogy, petrog., 84M/0264; nature of U occurrences in apatite-magnetite rocks, 84M/1469; origin, geol. time frame, 84M/1470; *China*, in carbonate-siliceous-pelitic rocks, genesis, 84M/1478; in Mesozoic-Cainozoic basins, mineralization conditions, genetic model, 84M/2573; *south China*, relation to development of fault-block movement, red beds, 84M/2574; *China, 114 deposit*, geol. features, mineralization, 84M/1479; *Liaoning Prov., Lianshanguan area*, relation to migmatitic metasomatism, 84M/1477; *Australia, Northern Territory, Nabarlek*, petr., geochem., constraints on genesis, 84M/1500; *Queensland, Ben Lomond*, geol., 84M/0289; *Mary Kathleen*, with magmatism, skarn formation, geochron., 84M/0273; *Canada, British Columbia, Okanogan Highlands*, basal-type, source from intrusive complex, 84M/2926; *Surprise Lake batholith*, 84M/2938; *Elliot Lake dist.*, Precambrian weathering, topographic control, 84M/2581; *Great Slave Lake, East Arm*, Lower Proterozoic secondary sedimentary, 84M/2582; *Labrador*, uraniferous granites, geochem., geol., 84M/2942; *Saskatchewan, McClean deposits*, geol., 84M/3898; *USA, Arizona, Yavapai Cty., Anderson mine*, geol., 84M/0292; *Texas, Ray Point*, origin, role of fluid mixing, fault-related sulphides, 84M/1699; *Virginia, Lovingston formation*, vein-type, favourable environment, 84M/1697; *Wyoming, S Powder River basin*, roll-front, use of airborne multispectral scanner to map related sandstone alteration, 84M/0241
—, isotopes, ^{235}U abundance, detn. with Ge(Li) γ-ray spectrometer, 84M/3689; *Greenland*, content in ice-sheet, link with Cosmos-954, 84M/3936; *Australia, Northern Territory, Austatom U prospect area*, radionuclides in ^{238}U decay series, fixation near mineralized zones, 84M/0323
—, minerals, *Germany, north Bavaria*, first occurrences in U exploration sites, 84M/1460; *Yugoslavia, Žirovsky Vrh* and *Austria, Fortsau*, U-silicates, chem., min., 0756; *Iran, Talmessi* and *Meskani*, with Cu, Ni, Co, geol., min., 84M/3882; *Canada, Ontario, Sharbot Lake area*, in pegmatites, 84M/2936
—, veins, *Canada, North West Territories, Great Slave Lake, East Arm*, genesis in cogenetic monzonitic laccoliths, 84M/2931
Uranophane, luminescence at 4·2K, 84M/3573; *India, Singhbhum shear zone*, in apatite-magnetite rocks, 84M/1469
Uranothorite, *USA, Virginia, Lovingston formation*, in vein-type U deposits, 84M/1697
Uranyl ions, complexes formed with recent organic matter of algal-origin, thermal decompn., 84M/1797; interaction in carbonate media, 84M/2708
—, minerals, luminescence at 4·2 K, 84M/3573
Ureyite, *Burma, Mogok*, first terrestrial occurrence in Maw-sit-sit, equivalence with chrome jadeite component, 84M/0828
Ushkovite, *Lake B. Tatkul'* new mineral, 84M/0895

Vaesite, *Bulgaria, Sv. Marina*, from polymetallic ore deposit, 84M/1487
Valentinite, *Italy, Tuscany, Cetine mine*, occurrence, 84M/4568; *Pereta mine*, coatings or pseudomorphs after stibnite, 84M/4567; *Japan, Miyazaki Pref., Shishigawa Sb mine*, occurrence, X-ray data, 84M/4599
Valleriite, *Sweden, Kavaltorp*, thermal decompn., 84M/2702; *Cyprus, Limassol Forest*, in serpentinite, 84M/2075
Vanadinite, *USA, Arizona, Glove mine*, occurrence, 84M/4609; *J. C. Holmes claim*, hollow crystals, new find, 84M/4570; *Old Yuma mine*, fine specimens, 84M/2324
Vanadium, future in USA and World economy, (book), 84M/1256; bonds with O, bond length-bond strength relationships at any oxidation state, 84M/1355; uptake by plants, 84M/1519; *USA, Colorado Plateau*, extraction from low-grade carnotite ore, 84M/0232; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, VO, thermal expansion data, 84M/4536; VO_2, thermal expansion data, 84M/4537; V_2O_5, effect on kaolinite thermal reactions, 84M/2742
—, ions, V^{3+}, cause of colour change in pyrope, grossular, 84M/1646
Vandendriesscheite, *Germany, north Bavaria*, with U minerals in tectonized wallrock, 84M/1460
Vanthoffite, *China, Hubei Prov., Q basin*, in Eocene saline deposit, 84M/4270
Vanuatu v. New Hebrides
Vanuralite, luminescence at 4·2 K, 84M/357

Variscan Belt, 'pelagic' carbonates in, sedimentary and tectonic environments, 84M/3259
—, orogen, generalized comparison with Damaran 84M/3256
Variscides, Palaeozoic sedimentation in northern branch of Mid-European, interpretation, 84M/3257; min. compn. of Rhenohercynian flysch, tectonic significance, 84M/3263; vertical movements in Rhenohercynian geosyncline shelf area, regional isostatic model, 84M/3272; *Europe*, flysch sedimentation, relations to tectonism, 84M/3269; geodynamic interpretation, 84M/3275
Variscite, *Australia*, *Queensland*, *Brisbane* and *Caboolture areas*, occurrences, resources, 84M/2578
Varves, *USA*, *Texas*, *Delaware Basin*, evidence for isotope shifts in Late Permian strata, 84M/2985
Vashegyite, *Czechoslovakia*, *Vashegy* (now *Železnik*) and *Chvaletice*, sheet phosphate, possible identity with sasaite, new data, 84M/1918
VENEZUELA, laterite VL-1 standard material, anal., 84M/0711; *Cariaco Trench*, hydroxyacid content of marine sediments, use as geochem. indicator, 84M/0698
Venus *v.* planets
Verhoogen, J., brief autobiographical account, 84M/1184
Vermiculite, formation of hydroxy-iron- from biotite, 84M/0468; natural and synthetic, effect of heat treatment on surface morphology, 84M/2744; effect of dithionite/citrate/bicarbonate treatment, Mössbauer study, 84M/3715; Mg-vermiculite, formation of new biopyribole from, 84M/3718; near-IR spectra of H_2O molecules, effects of layer charge on, 84M/3728; intergrade, differentiation from chlorite by soln. stability criteria, 84M/3731; *Wales*, origin in soils from Lower Palaeozoic sedimentary rocks, 84M/0136; *USA*, *Texas*, *Llano*, intercalated with aniline, structure, 84M/1320
Vesuvianite, *Italy*, *Piemonte*, *Val d'Ala*, with *P4/n* symmetry, structure, 84M/2507; *Canada*, *Quebec*, *Jeffrey mine* and *Laurel*, gem-quality, microprobe anals., opt., props., 84M/1644; *USA*, *Maine*, occurrences, brief description, 84M/2315
Veszelyite, *USA*, *Montana*, occurrence, brief description, 84M/2315
Viitaniemiite, *Canada*, *Quebec*, *Francon quarry*, occurrence, props., 84M/1915
Violarite, *China*, *Gan Su Prov.*, *Jinchuan*, oxidized films on secondary, 84M/3214
Viscosity, silicate melts, detn. of Pt sphere positions in, radiographic method, 84M/3984
Vivianite, *England*, *Cornwall*, *Megiliggar Rocks*, occurrence, cell dimension, 84M/1912; *USSR*, *western Siberia*, with torfovivianite and vivianite peat in bog-phosphates, geol., reserves, 84M/0304; *Italy*, *Lake Maggiore*, formation in sediments, Mössbauer, chem. studies, 84M/3225; *New Zealand*, *Auckland prov.*, diatoms assoc. with, 84M/1914; *Bolivia*, crystals to 30″, new find, 84M/4571; *Morococala*, large crystals, new find, 84M/4570
Vivianite peat *v.* vivianite
Volcanic activity *v.* volcanic eruptions
—, arcs, *Philippines*, *western Luzon*, application of discriminant technique for silica standardization, 84M/2909
—, ash, *south east England*, in Eocene beds, stratigraphical significance, 84M/0961; *Japan*, *Kyushu*, *Sakurajima volcano*, min., chem. compn., mechanism of formation, 84M/3430; *New Zealand*, weathering of soils from rhyolitic, implications of allophane, halloysite, 84M/0144; *Kenya*, soils in peralkaline, props., weathering, classification, 84M/3766; *USA*, *east-central* and *southern California*, Upper Pliocene, Pleistocene layers, chem. anals., correlations, ages, 84M/4418; *Wyoming*, *Jackson*, weathering of late Tertiary, importance of organic solutes, 84M/0623
—, belts, comparison of world's active, 84M/3407
—, calderas, *Australia*, *NSW*, *Currabubula formation*, outflow ignimbrite sheets from Late Carboniferous, 84M/3431; *Mexico*, *Puebla*, *Los Humeros*, alkali, alkaline earth geochem., 84M/4130; *Chile*, *southern Andes*, Calabozos, discovery, 84M/4423
—, complexes, *Ireland*, *Co. Kerry*, *Lough Guitane*, contemporaneous faulting, eruption, preservation, 84M/3308; *Chile*, *Tocopilla area*, *Coastal Range*, Jurassic, geochem. of gabbro from, 84M/2957; *North Sea*, *Erlend complex*, internal structure, seismic study, 84M/3341
—, cones, basaltic rings and tuff cones, evolution, 84M/4404; *India*, *Uttar Pradesh*, *Son Valley*, ash, tuff cones in Porcellanite formation, 84M/1028; *Antarctica*, *Gaussberg*, age, mode of formation, 84M/0038
—, domes, *USA*, *California*, *Medicine Lake Highlands volcano*, dykes beneath silicic, structural evidence, 84M/1042
—, ejecta, *Italy*, *Mt. Vesuvius*, clinopyroxene, petr., 84M/4409; *New Zealand*, *White Island volcano*, cyclic variation in, 1976-1979, 84M/1037
—, eruptions, simulated products of high-*T* synthesis, quantitative gas chromatographic anal., 84M/0446; mixed pumice eruptions, field characteristics, 84M/1044; processes, comparisons between Earth and planets, 84M/3083; correlation with surface-water runoff, 84M/4410; *England*, *Midlands*, Carboniferous, 84M/3342; *Derbyshire*, Dianantian extrusive activity, 84M/4407; *Iceland*, *Veidivötn*, magma mixing in fissure eruption, microprobe study, 84M/4405; *Canary Islands*, *El Hierro*, possible in 1973, evidence, 84M/3414; volcanological study, 84M/3416; *Japan*, *Usu volcano*, gradual bubble growth in dacite magma, possible cause of 1977-78 activity, 84M/4412; *New Zealand*, *Bay of Plenty*, *Mayor Island*, history, 84M/1032; *Taupo volcanic centre*, Waimihia and Hatepe plinian deposits, study, 84M/1033; *Zaïre*, *Mt. Niragongo*, exceptional eruption of 10 Jan. 1977, 84M/3423; *Nyamulagira volcano*, eruption of Jan-Feb 1980, nature of lava and new pyroclastic cone, 84M/2057; *USA*, *Hawaii*, *Kilauea*, eruption Jan. 1983, gas compn., 84M/4414; *Guatemala*, *Fuego volcano*, SO_2 emission during 1974 eruption, 84M/1043; *South Shetland Islands*, *Deception Island*, volcanic hazard at natural harbour, 84M/1038
—, features, *Iceland*, comparison with ocean floor, 84M/2146
—, formations, *Iran*, *Kouh-e-Shahsavaran massif*, recent, petr., structural implications, 84M/1026
—, gases, *southern USSR*, from mud-volcanoes, C-isotope distrib. in, relation to origin, 84M/2899; *Guatemala*, *Fuego volcano*, SO_2 emission in 1974 eruption, 84M/1043
—, glasses, *Iceland*, He, O, Sr, Nd-isotope relationships in, 84M/2867; *Japan*, *Towada*, in recent ash, alteration in different soil environments, 84M/0110; *South Africa*, *Barberton Mtn. Land*, *Fig Tree group*, highly altered in Archaean rocks, new interpretation for pseudo-oolites, 84M/2217
—, islands, glaciated, favourability for origin of life, 84M/2782
—, lineaments, *western USA*, potentially active, 84M/3403
—, provinces, *Italy*, *south Tuscany*, geochem. characteristics, constraints on lava petrogenesis, 84M/4107; *Western Australia*, *Pilbara block*, *Shaw batholith*, 3500 m.y. old calc-alkaline in Archaean craton, 84M/2035
—, rocks, magnetite-ilmenite-orthopyroxene-clinopyroxene associations, comparative geothermometry, 84M/1021; dredged from southern oceans, chem. anals., 84M/1052; derivation of normative compn. close to modal compn., method, 84M/1230; contaminants from isotope, tr. element relationships, characterization, 84M/4094; *Sweden*, *Hjulsjö*, felsic, interaction with Proterozoic sea-water, implications, 84M/0618; *west Bergslagen*, felsic, interaction with sea-water, erratum, 84M/2992; *east Finland*, late Archaean, Rb/Sr ages, isotopic geochem., 84M/3637; *England*, *Cumbria*, *Lake District*, *Central Fells*, geol. guide (book), 84M/3700; *Scotland*, *East Lothian*, geophys., 84M/4365; *western Ireland*, basic, in South Connemara group, petr., chem., 84M/0960; *Northern Ireland*, *Co. Antrim*, *Larne no. 2 borehole*, Permian basic altered lavas, new discovery, 84M/1991; *USSR*, *Kazakhstan*, *Orlovskoye-Openyshevskoye ore field*, silicic, genesis, quartz inclusion study, 84M/4375; *Urals*, *Uzel'ga orefield*, host rocks of sulphide deposits, cyclicity of, 84M/3881; *Poland*, *Żary pericline*, Lower Permian, postmagmatic processes in, 84M/4478; *Germany*, *Schwartzwald*, Permian quartz porphyries, eruption age, Rb/Sr systematics, 84M/2340; Permian, Rb/Sr systematics, 84M/3650; *Czechoslovakia*, *eastern Slovakia*, Neogene, prognostic areas of porphyry Cu deposits in, 84M/0255; *Smolnik area*, basic, petrogenesis, 84M/0971; *Zemplínske pohorie Mtns.*, *Vel'ká Tŕňa area*, altered Miocene rhyolite volcaniclastic rocks, mordenite in, 84M/0814; *Italy*, *north western Alps*, calc-alkaline, shoshonitic, ultrapotassic, petrogenesis, 84M/4106; *Spain*, *Biscay* and *Guipuzcoa prov.*, interbedded with sedimentary rocks, fossil dating, 84M/3645; *Guadalajara*, *Atienza area*, geochem. characteristics, 84M/2876; *Madeira*,

Volcanic, rocks (*contd.*)
detn. of Ni, Cu, Zn, Zr, Y, Sr, Rb, 84M/2880; *central north Bulgaria*, volcaniclastic component in Upper Cretaceous sedimentary rocks, 84M/2055; *Borovitsa region*, glass inclusions in quartz phenocrysts, 84M/0976; *Turkey, Demirci-Selendi area*, Cainozoic, petr., implications for origin, 84M/3358; *Pontic chain*, Upper Cretaceous, geochem., 84M/0977; *Saudi Arabia, Jabal al Abyad*, petr., chem., min., 84M/1025; *Sultanate of Oman*, in ophiolite, stratigraphy, 84M/2142; *Asia, Indo-Eurasian collisional margin*, Nd-Sr isotope, tr. element studies, 84M/1729; *India, Jammu* and *Kashmir, Doda region*, in Salkhala group, tectonic significance, 84M/3374; *Karnataka*, Dharwar rocks, petr., chem., isotopic ages, 84M/3655; *Ladakh batholith, Dras*, comparison with Indus and Shyok ophiolites, 84M/3460; *Himalayas*, Abor volcanics, evidence for Tethys birth in Himalayan segment, 84M/3373; *east China*, Mesozoic, zeolitite in, geol., genesis, 84M/2237; Cretaceous, isotopic age variations, 84M/3660; *Changbai Mtns.*, Cainozoic, K/Ar dating, 84M/2349; *Tanchang-Lujiang fault belt*, Cainozoic, petr., genesis, 84M/2033; *Yunnan Prov., Tengchong*, Plio-Pleistocene, origin, isotope and geochem. evidence, 84M/2901; *Mongolia, Bayan Obo*, Middle Proterozoic acidic, 84M/0996; *Japan, Masuda cauldron*, Palaeogene, petr., 84M/4392; *Japan, Sado Islands*, Neogene, petr., chem. anals., 84M/4390; *San'in dist.*, $^{87}Sr/^{86}Sr$ ratios in, 84M/2906; *Setouchi belt*, Nd, Sr systematics, clue to orogenic andesite origin, 84M/2902; *Shimane Pref., Haza cauldron*, geol., structure, 84M/4391; *Indonesia, Toba depression*, regional geol., evolution, 84M/3318; *Australia, Queensland, Bundaberg, Rockhampton* and *Clermont areas*, Cainozoic, K/Ar ages, 84M/2352; *New Zealand, D'Urville Island*, oceanic ridge metamorphism of, 84M/4437; *Takitimu Mtns.*, Lower Permian interbedded volcaniclastic sediments/volcanic rocks, lithostratigraphy, 84M/1001; *South Sandwich Islands*, Pb-isotope compns., bearing on magma genesis in intra-oceanic island arcs, 84M/0581; *north west Africa*, Late Proterozoic, U, Th content, 84M/2885; *East Africa, Virunga*, K-rich, possible metasomatic origin, isotope evidence, 84M/2887; K-rich, magmatism, statistical geochem. study, 84M/2888; *Kenya, Nyambeni Range*, basanite to peralkaline phonolite suite, quantitative crystal fractionation model, 84M/3425; *South Africa, Karoo*, evidence for continental lithosphere evolution, 84M/1705; *Canada, British Columbia, Clearwater-Wells Gray area*, Late Cainozoic, petr., 84M/4416; *Tulsequah area*, Palaeozoic, geol., 84M/4336; *Ontario, Helen Fe mine*, Archaean felsic, physical character, 84M/1041; *western USA*, Cainozoic, isotope geochem., evidence for mantle heterogeneity, 84M/2947; *California, Merced Peak quadrangle*, anal. data, 84M/0592; *Costa Rica, Aguacate formation*, geochem., 84M/2953; *Lesser Antilles, St. Vincent*, tr. element partition coefficients, 84M/0594; *Andes Mountains*, combined Sr-O isotope relationships, petrogenesis, 84M/2956; *Andes, 26°-29°S*, O-isotope compns., 84M/2955; *South Shetland Islands, King George Island*, Jurassic, K/Ar ages, 84M/2355; *Atlantic Ocean, Walvis Ridge*, Late Cretaceous volcaniclastic rocks, 84M/4433; *Pacific Ocean, Loihi Seamount* and *Hawaii*, He isotope variations, 84M/3438
—, systems, geochemically integral, unique, 84M/1713
—, vents, subsidence of bedded tuffs in, fluidization mechanism for, 84M/1020; *Scotland, Orkneys, Hoy*, Summery 'neck', possible lava flow, 84M/2054
Volcanism, current in different tectonic settings, systematic geochem. study, application, examples, 84M/0552; Surtseyan, mechanism of, 84M/2052; explosive, inception, evolution, hazards, (book), 84M/2451; explosive, overview and recommendations, 84M/3399; magma formation and ascension, mechanics, energetics, 84M/3404; explosive eruptions in space and time durations, intervals, comparison of world's active volcanic belts, 84M/3407; volcanic jets, factors governing, 84M/3410; hydromagmatic, exptl. modelling, 84M/3411; *southern Norway*, perforating Precambrian basement, age, 84M/1205; *France*, assoc. with rift development, 84M/0925; *south east Spain*, Neogene, 84M/3418; *Guadalajara, Atienza area*, petr., study, 84M/3419; *Canary Islands, Gran Canaria*, shield building, age, 84M/0015; *La Palma*, salic extrusions, 84M/3415; *Cape Verde Islands, Santiago Island*, geol., petr., 84M/3417; *Italy, Phlegrean Fields*, inflation and microearthquake activity, 84M/3422; *Sardinia*, Pliocene-Pleistocene, geochron., magmatic character, 84M/3420; *Greece, Milos* and *Santorini*, calc-alkaline, role of continental crust in, Sr-isotope, tr. element evidence, 84M/0561; *Cyprus, Pentadaktylos Range*, and continent-island arc collision, 84M/2072; *Australia, Mount Isa inlier*, superposed, timing, U/Pb data, 84M/2353; *Ethiopia*, assoc. with rift evolution, 84M/0939; *Kenya, north Turkana*, age, succession, structural evolution, 84M/1027; *Zaïre, south Kivu*, structural evolution, geodynamic interpretation of intracontinental volcanism, 84M/0988; *Canada, Arctic area, Freemans Cove*, primitive nephelinitic, assoc. with rifting, uplift, 84M/4393; *Ontario, Confederation Lake area*, repetitive cyclical basalt to rhyolite, geochem., 84M/1735; *Helen Fe mine*, Archaean felsic, physical character, 84M/1041; *Lake Superior Park*, bimodal in Archaean greenstone belts, greywacke compn. evidence, 84M/2040; *western USA*, potentially active volcanic lineaments and loci, 84M/3403; *Columbia River*, mantle heterogeneity or crustal contamination, comment on previous paper, 84M/0589; *Yellowstone Natl. Park*, explosive silicic system, crustal structure and evolution, 84M/3406; *Arizona, Castaneda Hills*, bimodal, origin, 84M/1014; *Hawaii, Kilauea*, explosive eruptions, 84M/3408; *Idaho, Wyoming, Montana, Yellowstone volcanic field*, large-volume explosive, bearing of magmatic evolution on understanding, 84M/3405; *Washington, Mount St Helens*, explosive of 18 May 1980, chronology and character, 84M/3409; *Mexico, Nayarit, Sanganguey volcano area*, Pleistocene to recent alkalic, 84M/4420; *Guadeloupe* and *St Vincent*, volcanic crises, role of volcanologists, journalists, 84M/3412; *Saint Lucia*, Late Quaternary explosive silicic, 84M/4419; *Colombia*, Cretaceous to Recent, petr., geochem., 84M/4134; *central Chile* and *Peru*, subduction geometry and magma genesis, 84M/3402; *South Shetland Islands*, Jurassic to Quaternary, apparent lateral migration, K/Ar geochron., 84M/2354; *Moon*, pre 4200 m.y. mare-basalt volcanism in highlands, 84M/3069; mare volcanism, beginning and end of, 84M/3073
Volcanoes, alkaline, source regions of, 84M/3400; terrestrial Plinian volcanic jets, differences from Jovian system, 84M/3410; *England, Shropshire, Shelve inlier*, two new volcanic centres, 84M/4408; *USSR, Kamchatka, Avacha*, exotic lava (avachite) from, 84M/4377; *Kunashir Island, Mendeleyev volcano*, chem. compn. of thermal waters, dependence on seismic activity, 84M/4164; *Italy, Roccamonfina*, white trachytic tuff, 84M/3421; *Greece, Santorini*, high alumina lavas, tr. element geochem., 84M/1724; *Saudi Arabia, Jabal al Abyad*, volcanic chain, correspondence with main fracture axis, 84M/1025; *Japan, Adatara volcano*, geol., petr., 84M/3429 *Usu volcano*, activity 1977-78, gradual bubble growth in dacite magma as possible cause, 84M/4412; *New Zealand, Alexandra volcanic group*, distrib., form, structural control, 84M/1035; *Tanzania, Kerimasi*, first pre-modern natrocarbonatite volcanism, 84M/2059; *Zaïre, Nyamulagira*, eruption of Jan-Feb 1980, nature of lava and new pyroclastic cone, 84M/2057; *USA, Hawaii, Kilauea*, differentiated tholeiitic basalts, distrib. on lower east rift zone, 84M/1039; explosive eruptions, 84M/3408; eruption Jan. 1983, gas compn., 84M/4414; *Kilauea, Halemaumau*, lava lake oscillations, magma reservoir beneath, 84M/1040; *Kohala volcano*, transition from tholeiitic to alkalic volcanism, 84M/2911; *Washington, Glacier Peak*, potential hazard, 84M/3948; *Mount St Helens*, isotopic, chem. evolution, 84M/0588; explosive eruption 18 May 1980, chronology and character, 84M/3409; *Mexico, Chiapas, El Chichon*, geol., 84M/4421; *Nayarit, Sanganguey*, Pleistocene to recent alkalic volcanism, 84M/4420; *Costa Rica, Arenal*, intra-crater activity, aa-block lava, viscosity, flow dynamics, 84M/4422; *St. Vincent, Soufrière*, inclusions in pyroxenes from 1979 nuées ardentes, 84M/4218; *Auckland Island, Musgrave Penin.*, and *Carnley Harbour*, age, 84M/1216; *Pacific Ocean, Mariana arc*, submarine, petr., chem., isotopic compns., 84M/2910; *Mercury, Martis Mare, Berlioz*, major volcano, 84M/3076
Volcanology, *Netherlands East Indies*, history of, 84M/1029
Volkonskoite *v.* smectite
Voltammetry, modern applications to inorganic anal., 84M/1247
Volynskite, *India, Kolar*, new locality, anal.

Volynskite (*contd.*)
84M/3883; *Japan*, *Yokozuru mine*, occurrence, opt. props., paragenesis, 84M/1902
Vonsenite, synthetic, crystal structure, Mössbauer spectrum, 84M/1409
Vuonnemite, *Greenland*, *Ilimaussaq*, second occurrence data, 84M/1835
Vyuntspakhkite, *USSR*, *Kola Peninsula*, new mineral, data, 84M/3254

Wadeite, isotypism with $K_2Si^{6+}Si^{4+}O_9$, 84M/0169; synthetic Sn-bearing, crystal structure, 84M/4038
Wairakite *v.* zeolites
WALES, vermiculite in soils from Lower Palaeozoic sedimentary rocks, origin, 84M/0136; crustal growth, late Precambrian-early Palaeozoic plate tectonic evolution, 84M/4314; *central*, monazite in panned stream sediments, distrib., palaeogeographic implications, 84M/3472; chlorite-mica stacks in low-strain rocks, 84M/3524; *south* and *borders*, clay min. assemblages in Townsend tuff, 84M/0115; *Clwyd*, *Halkyn Mtn.*, normal soil Pb content, graphical estimation, 84M/0315; soil Se content, reference to bedrock, sulphide ore contamination, 84M/1515; *Dyfed*, *Ceredigion*, normal soil Pb content, graphical estimation, 84M/0315; *Ceredigion*, *Aberystwyth area*, soil Se content, reference to bedrock, sulphide ore contamination, 84M/1515; *Aeron* and *Ystwyth Valleys*, Ag soil concentrations, dispersal from derelict mine sites, 84M/1525; *Gwynedd*, *Anglesey*, major, tr. element assoc. and distrib. in Lower Carboniferous carbonate sequence, 84M/0597; *Benallt mine*, ganophyllite, new chem. data, comparison with Swedish, American, 84M/0796; pennantite-Ia, IIb polymorphs, occurrence, props., 84M/1854; *Mona complex*, stratigraphy, subduction, strike-slip faulting, review, 84M/1123; *Meirionnydd Dolfrwynog bog*, geobotanically anomalous Cu bog, multitemporal remote sensing, 84M/0670; *Dolgellau*, detn. of Pb in auriferous quartz fluid inclusions, application of method, comparisons, 84M/2369; *Llŷn Peninsula*, *Sarn complex* and *Parwyd gneisses*, Rb/Sr whole rock ages, $\delta^{18}O$ values, geochem., 84M/3643; *Mid Glamorgan Caerphilly area*, hard-rock resources, 84M/3918
Wallkilldellite, *USA*, *New Jersey*, *Sterling Hill*, new mineral, data, 84M/3242
Waste disposal, site selection, design, management, geotechnical guidelines, 84M/2617; groundwater protection in Wessex Water Authority area, 84M/3941; recirculation of leachate as landfill option, benefits, problems, 84M/3943; *England*, *Essex*, *Pitsea*, infiltration at landfill site, estimation, comparison of methods and implications, 84M/3942
Wastes, liquid, *England*, *Warwickshire*, *Villa Farm*, migration from underground lagoons, controls on, 84M/3940
—, radioactive *v.* nuclear waste
Water, solubility of noble gases in, 84M/0365; tr. element speciation in, 84M/1522; thermochem., 84M/1583; percolation effect, principal patterns, 84M/1788; factor in primary hydrocarbon migration, accumulation, 84M/1803; thermonuclear ^{36}Cl pulse in, 84M/2624; solubility of amorphous silica at 100°-400°C, 101·3-MPa, 84M/2749; desorption isotherms on clays, kinetic method for detn., 84M/3714; acidification, acidic deposition and internal proton sources in, 84M/3933; dilute H in at high-*T*, *P*, fugacity-concentration relationship, 84M/3953; He concentrations in samples, possible method of studying long-lived faults, 84M/4070; geochem. cycles in Earth's crust, 84M/4159; *Scotland*, *Water of Luce* and *Luce Bay*, mixing of river, sea-waters, behaviour of *RE* elements, during, 84M/4162; *Iceland*, *Krafla* and *Reykjanes geothermal areas*, interaction with rocks, 84M/0647; *USSR*, *Gornyy Altai*, distrib. of S isotopes in atmospheric/surface, 84M/4069; *Greece*, *Santorini Island*, assoc. with shallow submarine hydrothermal activity, geochem., 84M/0654; *Israel*, *southern Coastal Plain*, continental brackish waters, hydrogeochem., 84M/3013; *Western Australia*, *Yeelirrie*, from uraniferous calcrete, pH, Eh, T, conductivity, alkalinity, 84M/1787; *USA*, *Hawaii*, *Kilauea*, concentrations, sources, losses in basalt, 84M/0580; *Jupiter*, *Europa*, liquid, 84M/3086
—, drinking, removal, of NH_4, Fe from by clinoptilolite tuff, 84M/1532
—, fresh, Fe, Mn species in, size distrib., 84M/0643
Water, geothermal *v.* geothermal water
—, ground, containing rare metals, effect of bed *P* and *T* on chem. compn., 84M/1789; *south east Norway*, chem., flow patterns in, 84M/1784; *Egypt*, *southern Sinai*, origin of salts in, tracing by Sr-isotope compn., 84M/1777
—, interstitial, in rocks and soils, extraction and chem. anal., 84M/0067; *Canada*, *south Ontario*, in freshwater lake sediments, enriched ^{13}C in, 84M/0662
—, mineral, *Portugal*, geochem. classification, 84M/3011; *Turkey*, relation of lineaments from Landsat imagery to, 84M/0237
—, natural, activity coefficients of ionic components, estimation using ion pairing model, 84M/1782; detn. of Hg traces in, application of chelating resin, 84M/2429
—, rain-, *Israel*, *Negev Desert*, ^{18}O, D contents, relationship with airmass trajectories, 84M/1776; *tropical Pacific Islands*, chem. compns., 84M/3031
—, river, *Scotland*, *River Tay*, chem. quality, ionic balance, 84M/1780; *v.* also rivers
—, sea *v.* sea-water
—, spring, *USA*, *Virginia*, Li content, chem., history of Farmville Lithia Springs Company, 84M/1779
Weathering, of rock surfaces, application of IR remote sensing to distinguish, 84M/0243; of amphiboles, pyroxenes, soil grain observations, 84M/0462; soil minerals, effects of exchangeable cations, 84M/1287; submarine, of basalts, influence on partial melting during subduction, 84M/2065; patterns on limestone, dolomite by lichens, cyanobacteria, evidence for contribution to terra rossa soil, 84M/3774; *England*, *Devon*, Tertiary lateritic, 84M/1070; *Spain*, *Granada*, *Sierra Nevada*, chem. in small river basin, quantification, 84M/2968; *Portugal*, *Santa Comba Dão*, granite, use in detn. of geotechnical parameters, 84M/3582; *Poland*, *Carpathian Mtns.*, sandstone tors, min. crusts in surface zone, 84M/4451; *Germany*, *Rhön*, in Upper Bunter clayey sediments, 84M/1341; *Switzerland*, *Zurich* and *St. Gallen*, of sandstone building stones, petr., chem., 84M/0929; *southwestern Caucasus*, rates of present, 84M/2492; *China*, *Jiangxi Prov.*, *414 mining dist.*, Nb-, Ta-bearing albitized granite, genesis of gibbsite from, 84M/1475; *Japan*, *Kochi Pref.*, chlorite-sericite schist, 84M/1344; *Tokushima Pref.*, *Kito-Munemori landslide area*, crystalline schists, 84M/2491; *Indonesia*, *Sulawesi*, *Tondano River*, products from andesitic rocks, 84M/2489; *Western Australia*, *Yilgarn block*, and hydrogeochem., 84M/0657; *New Zealand*, of soils from rhyolitic volcanic ash, implications of allophane, halloysite, 84M/0144; *West Ivory Coast*, of orthopyroxenes under lateritic conditions, 84M/0133; *Kenya*, soils in peralkaline volcanic ash, 84M/3766; *Canadian Shield*, Archaean chemical, 84M/2776; *Canada*, *Elliot Lake U dist.*, Precambrian, topographic control, 84M/2581; *USA*, *Massachusetts*, of sulphidic schist, mechanism, 84M/1521; *east Texas*, of lignite overburden, min. transformations, 84M/1335; *Wyoming*, *Jackson*, of late Tertiary volcanic ash, importance of organic solutes, 84M/0623; *Brazil*, granitic, 84M/3765; *Bolivia*, *eastern Andes*, erosion, apatite fission-track dating, 84M/2365
Websterite, *Australia*, *NSW*, *Walcha area*, garnet-, inclusions from nepheline mugearite, 84M/3384
Weddellite, *Italy*, *Venice*, *Isles of Torcello*, alteration crust on limestone, origin, 84M/1520; *Canada*, *Ontario*, *Lutterworth Township*, occurrence, 84M/1922; *USA*, *Oregon*, *Biggs*, occurrence, props., 84M/1921
Wehrlite, *Greece*, *Macedonia*, *Koronada*, with hessite, galena in ore deposit, 84M/2595; *Oman*, *Oman Mtns.*, alkali sills, petr., 84M/2026
Wells, *Germany*, *Hessen*, permanently operated, variations in tr. element content, 84M/1786
West Africa v. Africa, *West*
West Germany v. Germany
Whewellite, crystal growth in gels, lab. study, 84M/0385; growth morphology, theoretical prediction from structure, 84M/3854; *USA*, *Oregon*, *Biggs*, replacing weddellite, 84M/1921
Whitlockite, structural relation with cerite, 84M/2508; partitioning of actinides between synthetic and liquid, lab. study, 84M/2661
Whitmoreite, *Germany*, *Hagendorf*, formed by stepwise transformation of phosphoferrite, 84M/0879
Wicksite, *Canada*, *north east Yukon*, new mineral, 84M/0896
Wilhelmvierlingite, *Germany*, *Hagendorf*, new mineral, 84M/0897
Willemseite, solid soln. with talc, hydrothermal synthesis, props., 84M/2739
Willhendersonite *v.* zeolites
Witherite, crystal growth in gels, lab. study, 84M/0385; effect of mechanical energy on finely ground, 84M/0433; crystal chem., 84M/1911

Wittichenite, phase transformations, thermal expansion between 25-300°C, 84M/2700
Wittite, *Germany, Grube Gottesehre bei Urberg*, new discovery, 84M/2299
Wodginite, *USSR, Kola Peninsula*, crystals in granitic pegmatites, 84M/0841; *USA, Virginia, Powhatan County, Herbb pegmatite*, first US occurrence, 84M/1182
Wolfeite, *Germany, Hagendorf Süd*, tonnage mined, 84M/0876
Wolframite, detn. of W, Sn by XRF spectrometry, 84M/0075; *Japan, Kiwada, Fujigatani* and *Kuga mines*, from contact-metasomatic scheelite deposits, 84M/3905; *Kyoto Pref., Mt. Gyoja*, estimated Fe/Mn ratios, X-ray data, 84M/4594
Wolgidite *v.* lamproite
Wollastonite, O-isotope fractionations between water/wollastonite, geothermometrical use; 84M/0520; polysynthetically-twinned structures, 84M/3799; thermodynamics of melting, glass transitions, props. of amorphous phases, 84M/4010; *USA, Adirondack Mtns., Willsboro mine*, O-isotope evidence from for anorthosite shallow emplacement, 84M/2843
—, deposits, *China, Jilin Prov., Changweizi* and *Hubei Prov., Xiaojipu*, genetic types, geol. settings, 84M/2607
Wonesite *v.* mica
Wood, petrified, gem trade lab. notes, 84M/0498
Wroewolfeite, *Germany, Clara mine*, new find, 84M/4559
Wulfenite, *England, Derbyshire, Ball Eye quarry*, occurrence, 84M/2292; *Somerset, Batts Combe quarry*, new locality for, 84M/2293; *USA, Arizona, Cochise Co., Hilltop mine*, crystals to 5″ long, mineralogy, 84M/2328; *Glove mine*, crystals >4″ across, descriptions, 84M/4609; *Old Yuma mine*, crystals to 6″ long, crystals coloured black by Au, 84M/2324; *Silver Bill mine*, occurrence, 84M/2329; *Morocco, Touissit, Zelidja mine*, new find, 84M/4570
Wurtzite, *Italy, Tuscany, Alpi Apuane area*, new find, 84M/4566
—, -type lattices, decompn. of direct products of irreducible representations, 84M/2537
Wüstite, effects of *P, T*, on stoichiometry and phase relations, exptl. detn., 84M/0406; detn. of Bravais class, 84M/1350; compression, nonstoichiometry, bulk viscosity, 84M/2541; non-stoichiometric, effects of *P, T* on, 84M/3956; *Red Sea, Atlantis II Deep*, in hot brine, 84M/2971

Xenoliths, mantle, and continental basalts, (book), 84M/1254; ultramafic in alkaline magmas, evidence for mantle heterogeneity modified by magmatic activity, 84M/1704; in granites, 84M/3335; *Scotland, Loch Doon intrusion*, evidence for assimilation, partial melting, of continental crust, 84M/2258; *India, Himachal Pradesh, Dhauladhar batholith*, petrogenic significance, 84M/3506; *Australia, NSW, Southern Highlands province*, apatite-rich mantle xenoliths, *RE* element and isotopic study, evidence for CO_2-and *LREE*-rich mantle below, 84M/2908; *South Africa, Bultfontein*, veined, metasomatic and MARID, tr. element and isotopic studies, 84M/1659; *Jagersfontein*, alkremite, garnetite, eclogite, texture, min., 84M/0989; *Karoo*, evidence for continental lithosphere evolution, 84M/1705; *USA, Montana, Beartooth Mtns., Broadwater River area*, metasedimentary in granitic gneisses, min., petr., 84M/2003; *Nevada, Lunar Crater volcanic field*, CO_2-CO fluid inclusions in, indication of upper mantle f_{O_2}, 84M/2945
Xenon, in iron meteorite acid residues, 84M/0733; *Canada, Fairmont Hot Spring*, in fumarolic gases, evidence for geothermal activity, 84M/0663
—, ions, implanted in synthetic forsterite, retention, 84M/2660
—, isotopes, $^{129}Xe/^{132}Xe$, use as tracer for mantle isotope geochem., 84M/0508
Xenotime, *Belgium, Daverdisse*, in quartzites, quartz veins, 84M/1483; *Italy, Alps, Miage Glacier*, crystals, new find, 84M/4566; *Japan, Ehime Pref., Mt. Ooto*, occurrence, X-ray data, 84M/4578; *Shikohu, Takanawa Peninsula*, pegmatite occurrence, 84M/4574
Xilingolite, affiliations with heyrovskyite and aschamalmite, 84M/1924
X-ray absorption, $\gamma LiAlO_2:Fe^{3+}$ standard for tetrahedrally coordinated ferric iron, 84M/0186
—, analysis, clays, quantitative anal., simulation method, 84M/1290; quantitative local anal. of zoned minerals of variable compn., procedure, 84M/3679; line broadening in experimentally shock-loaded quartz powders, 84M/3960
—, diffractometry, orthopyroxenes in system $Mg_2Si_2O_6$-$MgAl_2SiO_6$-$MgCaSi_2O_6$, unit cell data, 84M/2728
—, diffraction, patterns of orthorhombic crystals, detn. of lattice parameters from, new method, 84M/0058; iron oxides using differential technique, use of internal standard, 84M/0059; Bragg angle measurement and mapping, 84M/0151; powder data, for new Li-Al-phase in system Li_2O-Al_2O_3-ZrO_2, 84M/0413; powder data for synthetic $Er_4Hf_3O_{12}$, $Er_5Hf_2O_{11.5}$, Er_6HfO_{11}, 84M/0416; powder pattern-fitting, preferred orientation correction, 84M/1236; new Weissenberg method for simultaneous recording of odd, even layers, 84M/1237; use in characterization of natural and synthetic clay catalytic props., 84M/1264; mixed-layer clays, computer calculation of diffraction patterns, 84M/1291; ident. of chlorite trioctahedral polytypes, 84M/1373; use in ident. of pearls, 84M/1653; accuracy in angle, intensity measurements, 84M/2370; precision lattice parameter measurements with Guinier camera, counter diffractometer, comparison, 84M/2371; diffractometer alignment, aberrations, effects on peak positions, intensities, 84M/2372; polycrystalline diffraction, accuracy and precision of intensities, 84M/2373; new standard reference Si powder, synthetic fluorphlogopite, 84M/2374; lattice parameters from Guinier powder patterns, precision, reproducibility, 84M/2375; computer programmes for processing, interpreting powder diffraction data, 84M/2376; profile models, evaluation, optimization procedures in profile fitting, 84M/2377; computer aided qualitative phase anal., 84M/2378; JCPDS data base, present and future, 84M/2379; frequency distrib. of '*d*' values in JCPDS data file, search/match implications, 84M/2380; standards with small number of reflections, computer search/match, 84M/2381; Hanawalt and Johnson-Vand computer search/match strategies, comparison, 84M/2382; reduction of preferred orientation, comparison of methods, 84M/2383; effect of crystallite size on intensities, 84M/2384; diffraction intensity of oxide solid solutions, applications, 84M/2385; quantitative anal. of platelike pigments, 84M/2386; quantitative phase anal. using NBS QUANT 82 computer system, 84M/2387; Fortran IV software for quantitative anal., 84M/2388; high *T* Guinier techniques, measurement of thermally induced structural changes, 84M/2389; use in characterizing hazardous wastes, 84M/2390; powder techniques, comparison, 84M/2391; phase ident., use of multi-scan diffraction, 84M/2392; minor phase ident., automated X-ray diffractometer for, 84M/2393; phase ident., time share computer capability, 84M/2394; quantitative anal. of Ca, Mn, Fe, Mg rhombohedral carbonates, 84M/2407; advances in anal. (book), 84M/2449; physical mixtures of elementary clay particles, interstratified characteristics, 84M/2469; powder data for phases in system $NaOH$-B_2O_3-H_2O at 250°C, 84M/2695; anion exchanged takovites, 84M/2698; simultaneous detn. of plagioclase structural state, compn., method, 84M/3178; position sensitive system for high-*P* expts., 84M/3678; mineral powder diffraction file group data book, 84M/3696; diffraction spots on two-slits Weissenberg photo, method for processing, 84M/3780; diffraction in Gandolfi camera, geometry of, 84M/3789; synthetic malachite, 84M/3847; for ident. of turquoise, 84M/4054; revised powder data for trioctahedral mica $2M_1$ polytype, 84M/4235; *USSR, Tuva, Khadyn Fe deposit*, Fe-rich rhodonite, pyroxmangite, bustamite, *d*-values, 84M/4222; *Poland, Waryński mine*, zincian dolomite, exptl. values, 84M/0872; *Italy, Sardinia, Monastir*, ferrierite, 84M/3183; *Portugal, Guardão region*, K-feldspars from granitic rocks, powder patterns, 84M/3174; *Japan, Tamba belt Mn mines*, rhodonites, pyroxmangites, data, 84M/4223
—, emission analysis, proton induced (PIXE), *v.* proton induced & c.
—, fluorescence, detn. of Sn, W in samples, 84M/0075; for detn. of tr. elements in BCS, 5 PRE reference materials, 84M/0719; automated qualitative anal. by, 84M/2395; quantitative anal. of oxide mixtures by empirical parameter methods, new method, 84M/2396; broadband energy dispersive anal. without standards, integrated fundamental parameters program for, 84M/2397; XRF II and EXACT fundamental parameters programs, comparison, 84M/2398; unweighed bio-, geological samples, multielement anal., 84M/2399; anal. by combined standard addition, matrix correction models, 84M/2400; accurate geochem. anal. of unknown compn. samples, 84M/2401; detn. of B_2O_3 in glass, 84M/2402; simultaneous detn. of 36 elements, use in prospecting, 84M/2403; geo sample elemental anal. using multichannel simultaneous spectrometer, 84M/2404

X-ray, fluorescence (*contd.*)
anal. of coal using artificial standards, 84M/2405; geol. uses, comparison with ICP-AES, 84M/2435; for detn. of light *RE* elements in apatite after anion exchange extraction, 84M/2440; automatic anal. of major elements in silicate rocks using fused disc samples, 84M/2441; anal. of ceramics, review, 84M/2448; use in geochem. anal. of samples of variable compn., 84M/3675; energy dispersive, environmental applications, 84M/3934; *Madagascar* and *Canada*, *Silver Crater mine*, for anal. of betafites, 84M/1888
—, photoelectron spectra, use in mineralogy, crystallography, mesolite example, 84M/1867
—, spectrometry, multielement anal., computer program for data capture, 84M/2406

YAP ISLANDS, greenschist-amphibolite transition equilibria at low-*P*, 84M/2271
Yarrowite, *Germany*, *Clara mine*, occurrence, paragenesis, 84M/4562
Yimengite, *China*, new oxide mineral in ilmenite from kimberlite, 84M/4292
Ytterbium, distrib. in ilmenite from various igneous rocks, 84M/1667; sorption by montmorillonite, effect of *P*, 84M/1540
Ytterialite, *Japan*, *Shikoku*, *Takanawa Peninsula*, pegmatite occurrence, 84M/4574; Yttrium *Norway*, *Sæteråsen*, geochem. exploration methods for, 84M/1807; *Ireland*, *Doolough Point area*, content in granite gneiss area, 84M/3000; *Italy*, *Sardinia*, geochem. in fluorite deposits, 84M/0532; *Maderia*, detn. in volcanic rocks, 84M/2880; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, undoped Y_2O_3 single crystals, real structure, 84M/3830
YUGOSLAVIA, *Cer*, ratio of easily soluble U to total U in granitic pluton, statistical study, 84M/0560; *Croatia, Slavonia*, spilite-keratophyre magmatism, characteristics, 84M/0972; *Inner Dinarides complex*, nonmetallic minerals in ophiolite complex ultramafic rocks, 84M/2139; *Montenegro*, red bauxites, contribution of igneous rocks to source material, 84M/4141; *Rujevac*, twinnite-zinckenite-plagionite association, 84M/3210; *Vrgorac*, bauxite occurrence, 84M/3920; *Žirovsky Vrh*, U-silicates in U deposits, chem., min., 84M/0756

Zaherite, *South Africa*, *Pofadder*, new occurrence, props., 84M/1905
ZAÏRE, hydrothermal kyanite-aluminian serpentine-florencite assemblages, petrogenesis, 84M/1856; basal conglomerate in West Congolan geosyncline, glacial origin, 84M/4455; *east*, Upper Precambrian grabens, later reactivation, 84M/1193; *Bukavu* and *Virunga*, lavas, petrochemical comparisons, 84M/2058; *Kipushi*, intense green sphalerite, props., 84M/2771; *south Kivu*, volcanism, structural evolution, geodynamic interpretation of intracontinental volcanism, 84M/0988; *Kivu Kobokobo*, opalite, crystal structure, twinning, 84M/1402; kamitugaïte, new mineral, 84M/4285; *Lake Kivu*, N-alkanes from sediments, chem. compn., 84M/0692; *Mt. Niragongo*, exceptional eruption of 10 Jan. 1977, 84M/3423; *Nyamulagira volcano*, eruption of Jan-Feb 1980, nature of lava and new pyroclastic cone, 84M/2057; *Shaba*, *Shinkolobwe*, oursinite, new mineral, 84M/0889; sayrite, new mineral, 84M/0893; urancalcarite, new mineral, 84M/4290; *Shaba*, *Star of the Congo mine*, cornetite, new find, 84M/4570; *Shaba copperbelt*, *Kamoto*, diagenetic stratiform Cu mineralization, comparison with Canadian, 84M/2580
ZAMBIA, gem quality, intense yellow tsilaisite, 84M/4050; crustal lineaments and shear zones, relationship to plate movements, 84M/4324; *north*, stratigraphy, sedimentation, regional posn. of Mporokoso group, 84M/4325; *Copperbelt*, conditions of ore mineral formation, reference to role of Co, 84M/1466; Cu-Co mineralization, geotectonic environment, 84M/2569; *Kitwe Dist.*, emerald, genesis, 84M/3134
Zeolites, co-crystallization of phases, 84M/0479; elemental anal., prompt nuclear, atomic reactions for, discussion of exptl. methods, 84M/1250; proposed structural class of framework silicates, 84M/1381; hydrothermal reactions with Sr, simulated transuranic elements, nuclear waste implications, 84M/1542; hydrothermally synthesized from rhyolitic pumice, Fe distrib., 84M/1628; ion-exchange isotherms, 84M/1630; derived from pumice, Fe distrib. in, 84M/2533; zeolite-A, formation from silica-alumina gels, study, 84M/2756; molecular sieve 4A, anomalous compressibility, volume discontinuities, 84M/2757; NaY, crystallization with a 'crystal direction agent', recrystallization of NaA into NaY in reaction mixture, 84M/2758; crystallochem. classification, 84M/3184; characteristics of group I, II zeolites, 84M/3185; complexes with Co(II)-, and Ni(II) tri- and dimethylphosphine, 84M/3747; alteration in hydrothermal brines, 84M/3932; synthetic zeolite 4A, anomalous compressibility in several hydrostatic *P* media, 84M/4528; *Faeroe Islands*, fission track dating, 84M/0013; *Italy*, *Sicily*, assoc. with montmorillonite, silica phases in Miocene deposits, origin, 84M/1079; *west India*, survey, 84M/4572; *Tibet*, *Rikaze-Bailang zone*, in pelagic ophiolite sedimentary sequence, 84M/2236; *USA*, *Arizona*, *Horseshoe Dam*, in alkali olivine basalt, min., 84M/2326; *Pacific Ocean*, *Costa Rica rift*, secondary in basalt, 84M/2182
—, analcite, phase relations with increasing pH, *T*, Na ion concentration, 84M/2754; synthetic P-substituted, structure, 84M/3822; *USSR*, *Bol'shoi Anyui River*, formation from Na-leucite, 84M/0809; *Poland*, *Rybnik coal basin*, occurrence, genesis, 84M/1109; *Japan*, *Bishamondaké*, coloured, X-ray data, 84M/4582; *Tsuyazaki*, chem. compn., genesis, 84M/4243; *USA*, *Wyoming*, *Yellowstone Natl. Park*, hydrothermal alteration, selective Cs concentration during, 84M/0523
—, barrerite, OH presence in natural and phases B, D, IR spect. study, 84M/0181
—, chabazite, vibrational spectra, 84M/1384; crystal structure refinement, 84M/2532; *Iran*, *north-east Azerbaijan*, K-Ag-exchanged natural chabazite, cation site location in, 84M/1385; *Japan*, *Bishamondaké*, coloured, X-ray data, 84M/4582
—, clinoptilolite, replacing opaline radiolaria, SEM study, 84M/1057; xylene isomerization on H-form, 84M/1629; phase relations with increasing pH, Na ion concentration, *T*, 84M/2754; Na-, K- endmembers, synthesis, 84M/2755; natural, synthesis of K-feldspar, kalsilite from, 84M/4030; *Belgium*, *Limburg prov.*, *Loksbergen*, minute crystals from siliceous sponge dissolution, props., 84M/1865; *Czechoslovakia*, *Nižný Hrabovec*, in zeolitic tuffite, min., props., uses, 84M/0301; content in zeolitic tuffites, detn., 84M/0811; *Romania*, adsorption of CO_2, SO_2, NH_3, N_2O, H_2S, 84M/2284; *Japan*, *Akita Pref.*, *Futatsui*, clinoptilolite tuff, changes in props. by Na-hydrate soln. treatment, 84M/0397; effect of acid soln. treatment on chromatographic props. 84M/0398
—, erionite, *New Zealand*, occurrences, brief descriptions, 84M/2315
—, faujasite, formation from silica-alumina gels, study, 84M/2756
—, ferrierite, *Italy*, *Sardinia*, *Monastir*, occurrence, XRD, 84M/3183; *USA*, *Arizona*, *New Cornelia mine*, description, 84M/4608
—, garronite, new data, 84M/0810; *Hungary*, *Halap Hill*, chem. anals., cell, IR spectra, 84M/0815
—, gmelinite, *Japan*, *Bishamondaké*, coloured, X-ray data, 84M/4582
—, gobbinsite, new data, 84M/0810
—, harmotome, *Poland*, *Rybnik coal basin*, occurrence, genesis, 84M/1109; *Austria*, *Obersulzbachtal*, crystals, 84M/4564; *Italy*, *Vicenza*, *Selva di Trissino*, anals., 84M/1866; *USA*, *Arizona*, *Kirkland Junction*, in basaltic lacustrine sandstone, 84M/0813
—, heulandite, *Poland*, *Rudno*, secondary in melaphyre, 84M/0975; *Hungary*, *Nadap*, with anomalous thermal behaviour, chem. anals, cell, IR spectra, 84M/0815; *Hungary*, *Nadap*, dehydration, structural study, 84M/2531; *Japan*, *Ogasawara* [*Bonin*] *Islands*, intermediate in heulandite-clinoptilolite series, props., 84M/4245; chem. compn., genesis, 84M/4243
—, laumontite, *Japan*, *Kyoto Pref.*, *Horikoshi*, morph., new crystal planes in, 84M/4246; *Tsuyazaki*, chem. compn., genesis, 84M/4243
—, leonhardite, *Japan*, *Tsuyazaki*, chem., genesis, 84M/4243
—, levyne, *Czechoslovakia*, *Žežice*, intergrowths with offretite, new chem., phys. data, 84M/0812
—, mesolite, thermodynamics, 84M/2647; *South Africa*, *Phalaborwa*, crystals, new find, 84M/4571; *Canada*, *Nova Scotia*, structure, ESCA study, 84M/1867
—, mordenite, xylene isomerization on H-form, 84M/1629; phase relations with increasing pH, Na ion concentration, *T*, 84M/2754; *Czechoslovakia*, *Žďlar u Staré Paky*, vibrational spectra, 84M/1383; *Zemplinske pohorie Mtns*, *Vel'ká Tŕňa area*, in altered Miocene rhyolite volcaniclastic rocks, 84M/0814; *New Zealand*, occurrences, brief descriptions, 84M/2315
—, natrolite, thermodynamics 84M/2647; *Germany*, *Zeilberg*, partially disordered, structure refinement, 84M/1382; *Hungary*, *Gulacs Hill*, partially disordered on tetrana-

Zeolites, natrolite (*contd.*)
trolite, chem. anals, cell, IR spectra, 84M/0815; *Japan, Fukuoka Pref., Bishamondaké*, coloured, X-ray data, 84M/4582
—, offretite, *Czechoslovakia, Žežice*, intergrowths with levyne, new chem., phys. data, 84M/0812; *USA, Arizona, Malpais Hill*, on celadonite in volcanic breccia cavities, 84M/2325
—, okenite, cryst. struct., 84M/0167
—, phillipsite, possible cause of 7Å X-ray reflection in Mn-nodules, 84M/3207; *Italy, Phlegrean Fields*, from yellow tuffs, chem., XRD, DTA, 84M/1864
—, scolecite, thermodynamics, 84M/2647; *Japan, Ehime Pref., Makinokawa*, microprobe anal., X-ray data, 84M/4579
—, stilbite, *Japan, Bomeki*, surficial ordering of Al/Si, effect on symmetry, 84M/0180; *Tsuyazaki*, chem. compn., genesis, 84M/4243; *New Zealand*, occurrences, brief descriptions, 84M/2315
—, thomsonite, *Japan, Bishamondaké*, coloured, X-ray data, 84M/4582
—, wairakite, *Japan, Hyōgo Pref., Hikihara*, disordered, compn., props., 84M/4244
—, willhendersonite, *Italy, Umbria, San Venanzo quarry*, new mineral, 84M/4291
Zeolitite, *east China*, in Mesozoic volcanic rocks, geol., genesis, 84M/2237
ZIMBABWE, crustal lineaments and shear zones, relationship to plate movements, 84M/4324; *Rhochrome mine*, Pd, Pt, Ir, Au content in Cr-spinel, ilmenite, magnetite, 84M/4249
Zinc, extraction by direct oxidative leaching of high-Mn sphalerite, prelim. study, 84M/0227; adsorption in soil, effect of pH, 84M/0314; future in USA and World economy, (book), 84M/1256; extraction from soil organic matter, use of NaOCl, 84M/1284; extractable amount in settling ponds, prediction, 84M/1516; in pelecypod shells, AAS anal., 84M/1745; incorporation in β-$Ca_3(PO_4)_2$, 84M/2711; detn. in fossil gastropods, bivalves, 84M/2838; adsorption-desorption and/or precipitation-dissolution processes in soils, 84M/3709; adsorption onto clay minerals, influence of Fe-oxide coatings, 84M/3743; crystals grown by vacuum evaporation, morphologies, 84M/3964; *England*, in urban dusts, soils, nationwide survey, 84M/1517; *Avon, Avonmouth*, soil, plant concentrations near smelter, 84M/1518; *Belgium*, content in Fe-sulphides, 84M/1897; *Heure*, geochem. dispersion around gossan in carbonate environment, 84M/1685; *River Meuse* and *France, River Garonne* and *Gironde Estuary*, adsorption on hydrous oxides, application of model, 84M/2632; *Italy, Sardinia, Sant-'Antioco Isthmus*, content in Plio-Pleistocene sediments, 84M/1747; *Madeira*, detn. in volcanic rocks, 84M/2880; *Romania, Baia Mare dist.*, frequency distrib. in polymetallic deposits, 84M/0541; *Iraq*, distrib. in rocks, 84M/0605; *Japan*, content in river bottom mud, 84M/1537; *Western Australia, Eastern Goldfields area*, accumulation in *Hybanthus floribundus*, 84M/2620; *Guatemala Basin, MANOP site H*, interaction with interfacial sediments, application of adsorption data, 84M/0613
—, compounds, ZnO-type lattices, decompn. of direct products of irreducible representations, 84M/2537; ZnS, revealing dislocations by etching, 84M/0423; ZnS, ZnS_2, electronic structure, 84M/1391; $ZnSiO_3$ gels, dissolution with organic agents, 84M/0690; Zn-tetrahedrite, substitution of Ag into, 84M/1591; $BaZnGeO_4$, shock-induced phase change, 84M/1579
—, deposits, Mississippi Valley type, thermal constraints on formation, implications for episodic basin dewatering, deposit genesis, 84M/1432; *Scotland, Leadhills, Strontian* and *Tyndrum*, 84M/0921; *Ireland, Ballinalack*, lithology, petr., min., 84M/1443; Co. Kildare, Harberton Bridge, breccia-hosted in Carboniferous carbonates, 84M/1446; *Co. Wexford, Duncormick*, geol. setting, 84M/1447; *Portugal, Neves Corvo*, exhalative, geol. setting, 84M/2565; *Czechoslovakia, Hodrušá-Deep*, Pb-Zn-Cu ore, processing, application of flotation, 84M/0280; *China*, types, main characteristics, 84M/1425; *Western Australia, Golden Grove deposit*, effects of metasomatism, development of quartz 'eyes' in intrusive/extrusive rocks, 84M/1498; geol., 84M/1499; *Queensland, Gilberton area*, 84M/2579; *USA, Tennessee, Mascot-Jefferson City*, fluid inclusion evidence for fluid mixing, 84M/2585; *v.* also lead deposits
—, ions, Zn^{2+} complexes with recent organic matter of algal origin, thermal decompn., 84M/1797
—, mining, pollution from, literature review, 84M/1514
—, minerals, ZnS, high resolution EM study of phase transitions, discussion, 84M/1588; reply, 84M/1589; *Pacific Ocean, Mid Pacific Mtns.* and *Hess Rise*, volcanogenic, 84M/3895
Zinkenite, structural implications from ramdohrite structure, 84M/0194; *Yugoslavia, Rajevac*, assoc. with twinnite, plagionite, 84M/3210; *Bolivia*, crystals, new find, 84M/4571
Zinnwaldite *v.* mica
Zippeite, luminescence at 4·2K, 84M/3573; *Germany, Clara mine*, new find, 84M/4559
Zircon, use as fission track geochronometer/geothermometer, 84M/1201; saturation behaviour in crustal magma types, effects of *T*, compn., 84M/1609; dissolution in granitic melts of variable H_2O content, kinetics, 84M/1610; shock compression to 150 GPa, 84M/2280; class of pigments for vitreous enamel industry, 84M/2608; sand, thermoluminescence glow peaks, 84M/3575; cat's-eye, description, 84M/4056; *France, Armorican Massif*, recovery from sands, 84M/2609; *Hungary, Velence* and *Mecsek Mtns*, from granitoid rocks, 84M/0757; *Carpathian Mtns., Maramureş, massif*, accessory from schist-gneiss complex, U/Pb dating, 84M/1210; *India*, from various geol. environments, tr. element characteristics, *RE* element patterns, partition, coefficients, 84M/2842; *Andhra Pradesh, Kanigiri area*, with Cb minerals in granitic rocks, 84M/0575; *Himalayas, Palung granite*, high resolution U/Pb systematics, 84M/0026; *Japan, Fukuoka Pref., Nagatare*, hafnian, occurrence, anal., 84M/4214; *Shikoku, Takanawa Peninsula*, pegmatite occurrence, 84M/4574; *Western Australia, Mt. Narryer*, 4,100-4,200 m.y. old, ion-microprobe ident., 84M/2351; *Yilgarn block*, from greenstone, age data, 84M/0034; *USA, Colorado* and *Wyoming, Sherman granite*, inclusions in rock-forming minerals, U-Th-Pb systematics armouring against isotopic loss, 84M/1663; *Nevada, southern Snake Range*, U-Th-Pb ages, 84M/1224
Zirconia *v.* zirconium compounds
Zirconium, crucible for automatic fusion of samples and Na-peroxide, 84M/0065; in 45 geochem. reference samples, detn. by ICP spectrometry, 84M/0714; fractionation in cassiterite, 84M/0825; diffusion in granitic melts of variable H_2O content, kinetics, 84M/1610; *Norway, Sæteråsen*, geochem. exploration methods for, 84M/1807; *Ireland, Doolough Point area*, content in granite gneiss, 84M/3000; *Madeira*, detn. in volcanic rocks, 84M/2880; *Mediterranean area*, content in karst-type bauxites, relationship to parent rocks, 84M/1760; *Japan, Fukazawa mine, Tsunokakezawa no. 1 orebody*, role in orebody formation, 84M/1694; *Philippine Sea*, distrib. in Mn nodules, 84M/4090
—, compounds, zirconia, shock compression to 150 GPa, 84M/2280; ZrO_2, thermal expansion data, 84M/4537; $CaZrO_3$, crystal structure, 84M/1387; ZrS_2, X-ray structural study, comparison with polytypic sulphides, 84M/1392; $ZrTiO_4$, $ZrTiO_4$-SnO_2 solid solns., phase transitions, 84M/0408
—, minerals, euhedral crystals from metasomatic processes, possible mechanism of formation, 84M/1550
Zirconolite, solid solubilities of Cs, Sr, Y, La, U, Th, Na in, radionuclide implications, 84M/0325
Zoisite, O-isotope fractionation between zoisite/water, 84M/0520; blue, gemmological props., ident., discovery, 84M/1647; stability relative to Fe-free clinozoisite, 84M/2726
Zoning, in plagioclase, anal., exptl. study, 84M/0472; in plagioclase porphyroblast from mylonite, 84M/0803; in minerals, quantitative *P-T* paths from, theory, tectonic applications, 84M/1573; sectoral, in lab. grown clinopyroxenes, 84M/1614; compositional in metamorphic minerals, 84M/1775; compositional in crystals, record of growth, reaction history, 84M/2637; sinusoidal (rhythmic) zoned plagioclase crystals, formation, 84M/2748; in minerals, quantitative local X-ray anal., procedure, 84M/3679; in K-feldspar megacrysts, Ba as indicator of, 84M/4239; garnet, *P-T* paths from, new technique for deciphering tectonics in crystalline terrains, 84M/4484; *Norway, Magerøy*, patterns in garnets, 84M/1824; *USSR, Nizhnemamonsk region*, in Cr-spinels, 84M/0830; *Czechoslovakia, Smolník*, of tr. elements in pyrite-Cu ore minerals, comparisons, 84M/0527; *Bulgaria, Rosen Co-Mo deposit*, colour zoning in phlogopite crystals, cause, 84M/0792; *Japan, Fujiwara mafic/ultramafic complex*, in chromite, 84M/0833; *central Shikoku*, in albite porphyroblast from Sanbagawa schists, 84M/0802

ORGANIZATION OF ABSTRACTS

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